

Aurora Mental Health Center

Traffic Impact Study



Date: June 6, 2022

Submitted To:

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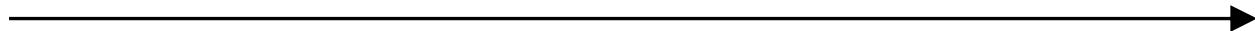
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AURORA (POTOMAC) MENTAL HEALTH CENTER

TRAFFIC IMPACT STUDY

1.0 Introduction

The Fox Tuttle Transportation Group has prepared this traffic impact study for the development of the Aurora Mental Health Center project. The property is located in the City of Aurora in the southeast corner of Potomac Street and Louisiana Avenue. Currently, there is one building on the property that has been utilized by various commercial businesses or medical services for the past few decades. The site has a single access point on Potomac Street and the property is surrounded by commercial and medical land uses to the north, south and west. Interstate 225 (I-225) travels along the east boundary of the project property. It is understood that the project will include three (3) new buildings to serve as the Aurora Mental Health Center with housing and medical services. **Figure 1** provides a vicinity map for the proposed project.

The purpose of this study is to assist in identifying potential traffic impacts within the study area as a result of this project. The traffic study addresses existing, short-term, and long-term peak hour intersection conditions in the study area with and without the project-generated traffic. The information contained in this study is anticipated to be used by the City of Aurora staff in identifying any intersection or roadway deficiencies and potential improvements for the build-out condition of the project and long-term future scenarios. This study focused on the weekday AM and PM peak hours which represents the periods of highest trip generation for the proposed use and adjacent street traffic. The study is consistent with the requirements of the City of Aurora's *Traffic Impact Study Guidelines* (June 2015). The following supporting documents were reviewed and incorporated into this analysis as appropriate:

- *Aurora Places; Planning Tomorrow's City*. The Comprehensive Plan for the City of Aurora. October 2018.
- *Maverik Store, Potomac Street and Mississippi Avenue Traffic Impact Evaluation*. Felsburg Holt Ullevig. August 2016.



2.0 Project Description

The Aurora Mental Health Center project on Potomac Street plans to redevelop the subject site to include three (3) buildings, including a 30,000 square foot medical clinic, a 50,000 square foot behavioral health center, and a 40-unit affordable apartment complex. The project proposes to continue to utilize the existing driveway on Potomac Street with full movement access and side-street stop-control. This intersection is approximately 150 feet south of the intersection with Louisiana Avenue. The site plan includes circulation around the outside of the property to provide front door access to the three (3) proposed buildings and the associated parking lots. Refer to the parking study that is a separate letter from this traffic study for calculations on parking demand and anticipated shared parking. For the purpose of this traffic study, it was assumed that the Aurora Mental Health Center project will be completed by Year 2025. **Figure 2** shows the site plan, access location, and circulation.

3.0 Study Considerations

3.1 Data Collection

Intersection turning movement volumes were collected in April 2022 at five (5) existing intersections during the weekday AM and PM peak hours, including pedestrians and bicyclists. Daily traffic volumes were also collected on Potomac Street north of and south of the existing access to the project site. Existing and historic traffic volumes on the study roadways were gathered from nearby development traffic studies, Colorado Department of Transportation's (CDOT) Transportation Data Management System (TDMS) and CDOT's Online Transportation Information System (OTIS). The existing traffic volumes are illustrated on **Figure 3**. The existing intersection geometry and traffic control are also shown on this figure. Count data sheets are provided in the **Appendix**.

3.2 Evaluation Methodology

The traffic operations analysis addressed the signalized and unsignalized intersection operations using the procedures and methodologies set forth by the *Highway Capacity Manual (HCM)*¹. Existing peak hour factors (PHF) by approach and peak hour were applied to the study intersections for the existing and

¹ [Highway Capacity Manual](#), Highway Research Board Special Report 209, Transportation Research Board, National Research Council, 6th Edition (2016).

short-term future scenarios. For long-term future scenarios, the PHF were set to 0.92 in the future unless the existing PHF was greater than this value. Study intersections were evaluated using Synchro software (v11).

3.3 Level of Service Capacity Analysis

A Level of Service analysis was conducted to determine the existing and future performance of the study area intersections and accesses to determine the most appropriate intersection traffic controls and auxiliary lanes for future conditions.

To measure and describe the operational status of the study intersections, transportation engineers and planners commonly use a grading system referred to as “Level of Service” (LOS) that is defined by the *HCM*. LOS characterizes the operational conditions of an intersection’s traffic flow, ranging from LOS A (indicating very good, free flow operations) and LOS F (indicating congested and sometimes oversaturated conditions). These grades represent the perspective of drivers and are an indication of the comfort and convenience associated with traveling through the intersections. The intersection LOS is represented as a delay in seconds per vehicle for the intersection as a whole and for each turning movement.

Typically, LOS A through C is considered to be acceptable for the overall intersection operations and LOS D overall during peak hours is acceptable. Individual movements may be allowed to fall to LOS E at signalized intersections. Minor movements at unsignalized intersections, such as left turns onto a major arterial, may be allowed to fall below LOS D, specifically where there are low volumes and/or no viable alternative per the City of Aurora’s *Traffic Impact Study Guidelines*. Criteria contained in the *HCM* was applied for these analyses in order to determine peak hour LOS for each scenario. A more detailed discussion of LOS methodology is contained in the **Appendix** for reference.

4.0 Existing Conditions

4.1 Roadways

The study area boundaries are based on the amount of traffic to be generated by the project and potential impact to the existing roadway network. The primary public roadways that serve the project site are discussed in the following text and illustrated on **Figure 1**.

Interstate 225 (I-225) is a six-lane divided highway that travels through the center of Aurora, connecting three counties and linking Aurora to Denver. The interstate currently extends 12± miles from I-25 (southwest of project) to I-70 (north of the project). I-225 has a full-movement interchange at Mississippi Avenue. The posted speed limit on I-225 within the study area is 55 miles per hour (mph) and this roadway serves approximately 160,000 vehicles per day (vpd) north of the interchange with Mississippi Avenue (CDOT, Year 2021).

Mississippi Avenue is a six-lane, east-west, major arterial that stretches from Parker Road (west) to Tower Road (east) where it becomes Dunkirk Street and becomes north-south. Mississippi Avenue provides access to several neighborhoods, commercial centers, medical services, recreational areas, schools, and office buildings. This roadway has a posted speed limit of 40 mph within the vicinity of the study area. Mississippi Avenue serves approximately 49,600 vpd east of Potomac Street (CDOT, Year 2021).

Potomac Street is a north-south minor arterial that parallels I-225 and extends between Jewell Avenue (south) to Colfax Avenue (north) where it becomes Fitzsimons Parkway. This roadway provides local access to the Anschutz Medical Campus, neighborhoods, recreational facilities, commercial centers, a school, and The Medical Center of Aurora. Potomac Street changes from a four-lane roadway with a center turn lane north of Alameda Avenue and then becomes a two-lane roadway to Mississippi Avenue. South of Mississippi Avenue, Potomac Street remains a two-lane roadway with the addition of a center turn lane and a two-way cycletrack along the east side of the street. Within the study area, Potomac Street has a posted speed limit of 30 mph and serves approximately 19,640 vpd south of Mississippi Avenue (count data, Year 2022) and approximately 13,670 vpd south of Louisiana Avenue (count data, Year 2022).

Louisiana Avenue is an east-west roadway that travels between Moline Street and Potomac Street, providing access to residential neighborhoods and The Medical Center of Aurora campus. Currently, Louisiana Avenue is a two-lane roadway with a posted speed limit of 25 mph. This roadway serves approximately 2,000 vpd west of Potomac Street (estimated from counts, Year 2022).

Wheeling Way is a local roadway that provides access to residential neighborhoods. Currently, this two-lane roadway has a posted speed limit of 25 mph and serves approximately 1,000 vpd north of Louisiana Avenue (estimated from counts, Year 2022).

4.2 Intersections

The study area includes five (5) existing intersections that are listed below with the current traffic control and were analyzed for existing and future background year traffic operations:

1. Mississippi Avenue at Potomac Street [signalized]
2. Potomac Street at Louisiana Avenue / Commercial Truck Access [signalized]
3. Potomac Street at Existing Access [stop-controlled]
4. Potomac Street at Arkansas Drive [stop-controlled]
5. Louisiana Avenue at Wheeling Way [stop-controlled]

The existing lane configuration at each of the study locations is illustrated on **Figure 3**. Signal timing plans were provided by the City of Aurora and utilized in this traffic study.

4.3 Pedestrian and Bicycle

Currently, there are sidewalks on both sides of all the roadways within and near the study area. Within approximately two (2) miles of the project property, there are several regional trails that transverse through the City of Aurora and provides local and regional connections to neighborhoods, civic centers, commercial developments, employment centers, and transit services. North of Alameda Parkway, people can access the Highline Canal Trail, a 71-mile regional multi-use path that extends from Jefferson County to the west and the Aurora/Denver boundary to the north. Approximately one (1) mile to the southwest of the project is the Westerly Creek Trail that travels north-south between the Highline Canal Trail and Yale Avenue with access to several parks and neighborhoods. Just over two (2) miles to the east on Mississippi Avenue is the Toll Gate Creek Trail that follows the creek to link to other trails, bikeways, and the Cherry Creek Trail. These regional trails lead to Quincy Reservoir, Cherry Creek State Park, the High Plains Trail along E-470, and numerous local pedestrian and bicyclist facilities.

Potomac Street provides a two-way, protected cycletrack along the east side of the roadway between Louisiana Avenue and Jewell Avenue where it links to the Westerly Creek Trail. Louisiana Avenue permits people cycling to ride with traffic. Wheeling Way provides directional on-street bike lanes south of Louisiana Avenue and shared lanes north of Louisiana Avenue.

4.4 Transit

The City of Aurora is serviced by Regional Transportation District (RTD). Currently, there are bus stops along Potomac Street and Wheeling Way. There is also light rail transit service along the east side of I-225

with the nearest station located at Florida Avenue and Abilene Street (named Florida Station). This station can be accessed via a pedestrian walkway and pedestrian bridge over the interstate that is located on Potomac Street just south of Arkansas Drive. The following routes provide transit serve within and near the study area:

- **H-Line:** this light rail route travels $18\pm$ miles from the Florida Station in Aurora (near the project site) to Downtown Denver. The rail tracks follow the alignment of I-225 to I-25 to Colfax Avenue into Downtown Denver and back.
- **R-Line:** this light rail route travels $22\pm$ miles from the RidgeGate Parkway Station in Lone Tree, through Aurora, to I-70 at the Peoria Station. The R-Line provides service at the Florida Station. The rail tracks follow the alignment of I-25 and I-225. People that utilize this light rail service can commute into the Denver Tech Center, downtown Denver, the Fitzsimons Medical Campus, and the Denver International Airport.
- **Route 11 (Mississippi Avenue):** this bus route travels along Mississippi Avenue between Lakewood Commons, the I-25 Broadway Station, the Florida Station, and the Aurora Metro Center Station. Within the study area, this bus route travels along Wheeling Way, Arkansas Drive and Potomac Street. Near the project property, there are bus stops on Potomac Street just north of Louisiana Avenue (east side), on Potomac Street north of Arkansas Drive (both sides), and on Wheeling Way at Louisiana Avenue (far sides of the intersection).

People that utilize these transit services can transfer to several other transit services to reach their desire destination locally or regionally within the Front Range communities.

4.5 Year 2021 Existing Intersection Capacity Analysis

The existing volumes, lane configuration, and traffic control are illustrated on **Figure 3**. The details of LOS for each movement are provided in **Table 1** and the 95th percentile queues are provided in **Table 2** (refer to **Appendix**). The intersection Level of Service worksheets are attached in the **Appendix**. **All of the study intersections currently operate overall at LOS C or better.** The following study intersections currently have movements that operate at LOS E/F during the one or both peak hours:

- **#1 – Mississippi Avenue at Potomac Street:** This signalized intersection currently operates overall at LOS C in both peak hours. During both peak hours, the eastbound left-turn lane was estimated to operate at LOS E and the 95th percentile queues for this movement were calculated to be up to

70 feet (three vehicles or less). During the AM peak hour, the northbound through movement was estimated to operate at LOS E with the 95th percentile queue calculated to be 102 feet (about four vehicles). During the PM peak hour, the westbound left-turn and southbound right-turn movements were estimated to operate at LOS E with the 95th percentile queue for the westbound left-turn calculated to be 169 feet (about seven vehicles) and one vehicle or less for the southbound right-turn. Although the southbound left-turn movement was estimated to operate at LOS D in both peak hours, it should be noted that the 95th percentile queue for this movement was calculated to extend beyond the existing storage by approximately 100-150 feet depending on the peak hour.

Recommendations: Consider lengthening the southbound left-turn storage from 50 feet to 135 feet to minimize impacts to the adjacent lanes. It appears this could be achieved by updating the pavement markings (further investigation is needed to verify). Note the calculated queue will continue to be longer than the available storage length since the upstream intersection is only 140 feet away from the stop bar at Mississippi Avenue.

No mitigation measures are recommended for the other movements with LOS E since the delays are reasonable for the left-turns and side-street movements during peak periods and less than one signal cycle length. The queues are maintained within the existing storage lengths.

- **#2 – Potomac Street at Louisiana Avenue:** This signalized intersection currently operates overall at LOS B in both peak hours. The eastbound left-turn/through lane and the westbound approach were estimated to operate at LOS E in the AM peak hour. During the PM peak hour, the eastbound left-turn/through lane was estimated to operate at LOS E. The 95th percentile queue for the eastbound left-turn/through lane was calculated to extend up to 251 feet (about 10 vehicles) which is beyond the existing storage length. The 95th percentile queue for the westbound approach lane was calculated to extend up to 12 feet (one vehicle or less).

Recommendations: Consider lengthening the eastbound left-turn/through storage from 60 feet to 275 feet to manage the queue and to minimize any impacts to the bike lane and right-turn lane. It appears this could be achieved by updating the striping (further investigation is needed to verify).

5.0 Future Conditions

5.1 Annual Growth Factor and Future Volume Methodology

In order to forecast the future peak hour traffic volumes, the historic count data from CDOT and the future forecasts from DRCOG were reviewed, compared, and utilized. The data indicated that growth on Mississippi Avenue has been 1% annually and is anticipated to remain the same in the future. The data on Potomac Street indicated there is likely to be an annual growth rate of 0.5% since the properties along Potomac Street are buildout and significant redevelopment would have to occur for a greater growth in traffic. For the purpose of this traffic study, an annual growth rate of 1.0% was applied to the existing through volumes on Mississippi Avenue and an annual growth rate of 0.5% was applied to the existing traffic volumes along Potomac Street, Louisiana Avenue, and Wheeling Way. The Year 2025 background volumes are summarized on **Figure 4** and the Year 2040 background volumes are summarized on **Figure 5**.

5.2 Year 2025 Background Intersection Capacity Analysis

The study area intersections were evaluated to determine baseline operations for the Year 2025 background scenario and to identify any capacity constraints associated with background traffic (refer to **Section 5.1** for growth assumptions). The background volumes, lane configuration, and traffic control are illustrated on **Figure 4**.

The Level of Service criteria discussed previously was applied to the study area intersections to determine the impacts with the short-term background volumes. This analysis assumes existing signal timing remains, although it is likely that the signal timing will be adjusted as traffic grows and/or travel patterns adjust. The details of LOS for each movement are provided in **Table 1** and the 95th percentile queues are provided in **Table 2** (refer to **Appendix**). The intersection Level of Service worksheets are attached in the **Appendix**.

In summary, all of the study intersections were estimated to operate overall at LOS C or better in the 2025 background condition during both peak hours with majority of the movements operating at LOS D or better. The same movements that were calculated to operate at LOS E in the existing condition were projected to continue to operate at the same letter grade in the short-term future condition and not degrade to LOS F. Some of the 95th percentile queues increased by two vehicles or less with the additional background traffic growth. No additional mitigation measures are recommended from those listed in the existing scenario.

5.3 Year 2040 Background Intersection Capacity Analysis

The study area intersections were evaluated to determine baseline operations for the Year 2040 background scenario and to identify any capacity constraints associated with background traffic in the long-term scenario (refer to **Section 5.1** for growth assumptions). The long-term background volumes, lane configuration, and traffic control are illustrated on **Figure 5**.

The Level of Service criteria discussed previously was applied to the study area intersections to determine the impacts with the long-term background volumes. This analysis assumes existing signal timing remains, although it is likely that the signal timing will be adjusted as traffic growths and/or travel patterns adjust. It should be noted that the peak hour factors were adjusted to 0.92 (if the existing factor is less than 0.92) on the arterials since it is assumed that the peak periods will become longer with peak hour traffic spread more evenly over the hour as traffic increases than is experienced today.

The details of LOS for each movement are provided in **Table 1** and the 95th percentile queues are provided in **Table 2** (refer to **Appendix**). The intersection Level of Service worksheets are attached in the **Appendix**.

In summary, all of the study intersections were estimated to operate overall at LOS C or better in the 2040 background condition during both peak hours with the majority of movements operating at LOS D or better. The following movements were calculated to begin to operate at LOS E/F in one or both peak hours in Year 2040 background as described below:

- **#1 – Mississippi Avenue at Potomac Street:** This signalized intersection is estimated to continue to operate overall at LOS C in both peak hours. During the PM peak hour, the northbound left-turn lane was estimated to begin to operate at LOS E and the 95th percentile queues were calculated to be up to 117 feet (five vehicles or less). The following movements will continue to operate at LOS E as presented in the existing and short-term scenarios: eastbound left-turn and westbound left-turn. The 95th percentile queue of the eastbound left-turn movement was calculated to be maintained in the existing storage length. The 95th percentile queue for the westbound left-turn was calculated to extend to 411 feet, which is 11 feet beyond the existing storage length. Although the southbound left-turn movement was estimated to operate at LOS D in both peak hours, it should be noted that the 95th percentile queue for this movement was calculated to extend beyond the existing storage by approximately 120-155 feet.

Recommendations: No additional mitigation measures are recommended from the existing scenario. The delays are reasonable for the left-turns and side-street movements during peak

periods and less than one signal cycle length. The majority of the queues are maintained within the existing storage lengths. The westbound left-turn storage cannot easily be extended since it is limited by a back-to-back left-turn with the adjacent intersection which is the I-225 interchange.

6.0 Future Conditions with the Development

The proposed Aurora Mental Health Center is anticipated to include a medical clinic, behavioral health center, and affordable housing. For the purpose of this traffic study, it was assumed that the entire project will be complete in three (3) years.

6.1 Trip Generation

A trip generation estimate was performed to determine the traffic characteristics of the proposed redevelopment. The trip rates contained in the Institute of Transportation Engineers (ITE) *Trip Generation Handbook and Manual*² were applied to estimate the project traffic. The trip rates for #610 "Hospital", #223 "Affordable Housing – Income Limits"; and #630 "Clinic" were applied to the proposed square footage or number of units.

The trip data for "Affordable Housing" is new to the ITE *Trip Generation Handbook* with only five (5) studies included. The definition of this land use type is:

"Affordable housing includes all multifamily housing that is rented at below market rate to households that include at least one employed member. Eligibility to live in affordable housing can be a function of limited household income and resident age. Data are presented for three subcategories for this land use: (1) sites with income limitations for its tenants (denoted as income limits in the data plots), (2) sites with both minimum age thresholds and income limitations for its tenants (denoted as senior in the data plots), and (3) sites designed for and occupied by residents with special needs, such as persons with physical and mental impairments, single mothers, recovering addicts and others living in a group setting."

For conservative purposes of this traffic study, the subcategory of "income limits" was utilized although the housing is anticipated to be utilized by individuals that have special support needs from the medical services to be provided at the Aurora Mental Health Center. Based on the limited data available in the ITE

² *Trip Generation Handbook and Manual, 10th Edition*, Institute of Transportation Engineers, 2017.

Trip Generation Handbook for affordable housing, the “special needs” category was calculated to be approximately 55% of the “income limits” daily trip rates and approximately 40% during the peak hours.

It should be noted that there is not a specific rate in ITE for facilities that focus on behavioral health and local data is not available. Based on typical staffing of these facilities, it is anticipated the trips estimated with the “Hospital” trip rates are conservative and will most likely be between 50-75% of the trip volume estimated by land use “Hospital”.

Table 3 provides the detailed trip generation estimates for the Aurora Mental Health Center project (refer to the **Appendix**). The proposed project is expected to experience mostly new trips, also known as ‘primary trips,’ as well as non-auto trips which are discussed below:

Primary Trips. These trips are made specifically to visit the site and are considered “new” trips. Primary trips would not have been made if the proposed project did not exist. Therefore, this is the only trip type that increases the total number of trips made on a regional basis.

Non-Auto Trips. These trips are those that are completed by carpool, walking, biking, or transit. The non-auto trips were assumed to be 5% which includes any trips that remain internal to the site between the three (3) buildings.

The Aurora Mental Health Center project was estimated to generate approximately 1,767 daily trips with 131 trips in the AM peak hour and 163 trips in the PM peak hour. It is anticipated that the trip estimate is conservative since the affordable housing component utilized the higher trip rate for “income limits” and not “special needs.” Also, the use of hospital trip rates for the behavioral health facilities is likely double the anticipated trips based on programming and staffing of similar facilities.

6.2 Trip Distribution and Assignment

The estimated trip volumes were distributed onto the study area street network based on existing traffic characteristics, land uses, and traffic patterns in the area, as well as regional growth and future traffic patterns. The existing volumes were utilized to determine where vehicles are coming from and going to within the study area, plus the routes to get to major highways and anticipated destinations were taken into consideration. The following distributions were assumed for this project and are shown on **Figure 6**:

- North Potomac Street: 5%
- South Potomac Street: 35%
- West Mississippi Avenue: 20%
- East Mississippi Avenue: 30%
- South Louisiana Avenue: 5%
- West Wheeling Way: 5%

Using the distribution assumptions, the projected site traffic was assigned to the study area roadway network for the weekday AM and PM peak hour periods and shown on **Figure 7**.

6.3 Proposed Access

The Aurora Mental Health Center site plans to continue to utilize the existing access on Potomac Street which is approximately 150 feet south of Louisiana Avenue. This access will continue to include one inbound lane and one outbound lane with side-street stop-control; however, it is proposed that the width of the access be reduced, and the existing raised median be removed.

Potomac Street includes a center left-turn lane that will accommodate any southbound left-turns into the site. The existing access intersection and lane configuration is illustrated on **Figure 7**. Internally, there will be one circulating street that will be constructed to provide the most beneficial access around the site with accommodations for pedestrian and bicycle friendly amenities.

6.4 Future Multi-Modal Facilities

The Aurora Mental Health Center project proposes to have sidewalks along the edges of the property and between the buildings and parking lots to connect internally and externally. Potomac Street provides connected sidewalks, a two-way cycletrack along the east site, and high frequency transit services. The reconstruction of the existing driveway will include a marked crosswalk and specific signage to bring awareness of crossing pedestrians and the two-way bicycle traffic on Potomac Street.

6.5 Year 2025 Background + Project Intersection Capacity Analysis

This section discusses impacts associated with the addition of the Aurora Mental Health Center redevelopment trips in the short-term scenario. The site-generated volumes were added to the Year 2025 background volumes and are illustrated on **Figure 8**. This figure also illustrates the necessary traffic control and lane configurations for all of the study intersections and the proposed access.

The study intersections are anticipated to operate similarly to the short-term background condition with the addition of project trips and all of the overall intersection levels of service remained the same letter grade. The details of LOS for each movement are provided in **Table 1** and the 95th percentile queues are provided in **Table 2** (refer to **Appendix**). The intersection Level of Service worksheets are attached in the **Appendix**.

The following intersections are anticipated to have one movement that begins to operate below LOS D with the additional project trips:

- **#1 – Mississippi Avenue at Potomac Street:** This signalized intersection will continue to operate overall at LOS C in both peak hours. During the AM peak hour, the northbound left-turn was estimated to begin to operate at LOS E (increase of about 15 seconds) due to increased turning traffic and limited green time. The 95th percentile queue for this movement was calculated to increase by 90 feet (about four vehicles) during the morning peak but be maintained within the existing storage length.

Recommendations: Adjust the signal timing, as necessary. A high-level review indicated that the northbound left-turn could operate at LOS D, similar to the short-term background scenario, if five (5) additional seconds in green time were provided to the protected left-turn phase.

- **#2 – Potomac Street at Louisiana Avenue:** This signalized intersection will continue to operate overall at LOS B in both peak hours. During the AM peak hour, the eastbound right-turn was estimated to begin to operate at LOS E (increase of less than one second). The 95th percentile queue for this movement was calculated to remain the same as existing (one vehicle or less).

Recommendations: No mitigation measures recommended. The delay and queue of the eastbound right-turn are reasonable for the side-street approach with a split phased signal.

The existing access was calculated to operate overall at LOS A during both peak hours and the westbound approach estimated to operate at LOS B in the AM peak hour and LOS C in the PM peak hour. The 95th percentile queue on the project driveway was calculated to be up to 40 feet (about two vehicles) that will be maintained on-site.

6.6 Year 2040 Background + Project Intersection Capacity Analysis

This section discusses impacts associated with the addition of the Aurora Mental Health Center redevelopment trips in the long-term scenario. The site-generated volumes were added to the Year 2040 background volumes and are illustrated on **Figure 9**. This figure also illustrates the necessary traffic control and lane configurations for all of the study intersections and the proposed access.

The study intersections are anticipated to operate similarly to the long-term background condition with the addition of project trips and all of the overall intersection levels of service remained the same letter

grade. The details of LOS for each movement are provided in **Table 1** and the 95th percentile queues are provided in **Table 2** (refer to **Appendix**). The intersection Level of Service worksheets are attached in the **Appendix**. The following intersections are anticipated to have one movement that begins to operate below LOS D with the additional project trips:

- **#1 – Mississippi Avenue at Potomac Street:** This signalized intersection will continue to operate overall at LOS C in both peak hours. During the PM peak hour, the southbound through movement was estimated to begin to operate at LOS E (increase of about three seconds) due to increased traffic through the intersection and limited green time. The 95th percentile queue for this movement was calculated to increase by eight (8) feet (one vehicle or less).

Recommendations: Adjust the signal timing, as necessary. A high-level review indicated that the southbound through could operate at LOS D, similar to the long-term background scenario, if two (2) additional seconds in green time were provided.

- **#2 – Potomac Street at Louisiana Avenue:** This signalized intersection will continue to operate overall at LOS B in both peak hours. During the AM peak hour, the eastbound right-turn was estimated to begin to operate at LOS E (increase of less than one second). The 95th percentile queue for this movement was calculated to remain the same as existing (one vehicle or less).

Recommendations: No mitigation measures recommended. The delay and queue of the eastbound right-turn are reasonable for the side-street approach with a split phased signal.

The existing access was calculated to operate overall at LOS A during both peak hours and the westbound approach estimated to operate at LOS C in both peak hours. The 95th percentile queue on the project driveway was calculated to be up to 40 feet (about two vehicles) that will be maintained on-site.

7.0 Queuing Analysis

A queuing analysis was performed to determine if the 95th percentile queues would be accommodated by the existing storage length, to determine the storage lengths for future auxiliary lanes, and if any of the queues would impact an upstream intersection/access. **Table 2** provides the existing and proposed storage lengths, as well as the 95th percentile queues for each existing and future scenario as calculated by Synchro (assuming each vehicle utilizes 25 feet of space). It should be noted that the 95th percentile

queue length is a theoretical queue that is 1.65 standard deviations above the average queue length. In theory, the 95th percentile queue would be exceeded 5% of the time based on the average queue length, but it is also possible that a queue this long may not occur.

As shown in **Table 2**, majority of the queues are shorter than the provided storage length in all scenarios. The movements that have queues extending beyond the existing storage length are listed below and highlighted in blue in **Table 2**:

- **Mississippi Avenue at Potomac Street:** Westbound left-turn by approximately 29 feet and southbound left-turn by approximately 156 feet. The westbound left-turn cannot easily be extended since it is limited by the back-to-back left-turn lanes associated with the I-225 interchange intersection. Consider restriping the southbound left-turn storage to provide 135 feet of storage.
- **Potomac Street at Louisiana Avenue:** Eastbound left-turn/through by approximately 212 feet. Consider restriping the eastbound approach to extend the storage length from 60 feet to 275 feet.

The project trips do not significantly increase queues at the existing study intersections. The study intersections that are at or near capacity will experience longer queues with any additional traffic. The queues between the proposed access intersections were evaluated to determine if queued vehicles would impact an upstream intersection. It was determined that the proposed access will not have queues that extend into adjacent intersections.

Recommended turn lanes storage lengths and taper lengths are also listed in **Table 2**, which are based on the CDOT State Highway Access Code for the assumed posted speed of each study roadway. Classification of NR-B was utilized on the arterial roadways.

8.0 Conclusions

The Aurora Mental Health Center project on Potomac Street plans to redevelop the subject site to construct three (3) buildings, including a 30,000 square foot medical clinic, a 50,000 square foot behavioral health center, and a 40-unit affordable apartment complex. The project proposes to continue to utilize the existing driveway on Potomac Street with full movement access and side-street stop-control. This intersection is approximately 150 feet south of the intersection with Louisiana Avenue. The site plan

includes vehicular and multi-modal circulation around the property to connect to the three (3) proposed buildings, amenities, and parking lots. Refer to the parking study that is a separate letter from this traffic study for calculations on parking demand and anticipated shared parking. For the purpose of this traffic study, it was assumed that the Aurora Mental Health Center project will be completed by Year 2025.

Aurora Mental Health Center is estimated to generate approximately 1,767 daily trips with about 131 trips occurring in the AM peak hour and 163 trips occurring in the PM peak hour at full build-out (anticipated to be a conservative estimate due to trip rates not available for specific land uses on this site). **It was determined that the existing roadway system and access can adequately accommodate the projected traffic volumes for buildout conditions.** It is acknowledged that some of the study intersections will continue to have movements that will operate at LOS E which is typical for left-turn and side-street movements during peak periods. The recommendations listed below should be considered.

Existing/Background Conditions (Non-Project Related):

- **Mississippi Avenue at Potomac Street:** Extend the southbound left-turn storage from 50 feet to 135 feet with restriping. *[Existing]*
- **Potomac Street at Louisiana Avenue:** Extend the eastbound left-turn storage length from 60 feet to 250 feet with restriping. *[Existing]*
- **All signalized intersections:** Adjust signal timing as appropriate to accommodate increases in volume or change in travel patterns. Balance the green time to serve all the movements, pedestrian crossings, and on-street bike facilities.

Project Conditions:

- **Existing Access on Potomac Street:** Maintain one inbound lane and outbound lane and side-street stop-control. Include a marked crosswalk or raised crosswalk on the access approach.
- **All signalized intersections:** Adjust signal timing as appropriate to accommodate increases in volume or change in travel patterns. Balance the green time to serve all the movements, pedestrian crossings, and on-street bike facilities.

The proposed lengths of auxiliary lanes are listed in **Table 2**. Note that the traffic study provides technical information and evaluates the need for transportation mitigation as traffic grows, but it does not address infrastructure commitments or obligations of the Aurora Mental Health Center.

Tables and Figures:

Table 1 – Peak Hour Intersection LOS Summary

Table 2 – Peak Hour Estimated Queues and Proposed Auxiliary Lanes

Table 3 –Trip Generation Summary

Figure 1 – Vicinity Map

Figure 2 – Conceptual Site Plan

Figure 3 – Existing Traffic Volumes

Figure 4 – Year 2025 Background Traffic Volumes

Figure 5 – Year 2040 Background Traffic Volumes

Figure 6 – Site Trip Distribution

Figure 7 – Site-Generated Trip Volumes

Figure 8 – Year 2025 Background + Site-Generated Traffic Volumes

Figure 9 – Year 2040 Background + Site-Generated Traffic Volumes

Aurora (Potomac) Mental Health Center Traffic Impact Study

Table 1 - Peak Hour Intersection Level of Service Summary

| Intersection and Lanes Groups | 2022 Existing | | | | 2025 Background | | | | 2025 Bkgrd + Project | | | | 2040 Background | | | | 2040 Bkgrd + Project | | | |
|--|---------------|-------------|---------------|-------------|-----------------|-------------|---------------|-------------|----------------------|-------------|---------------|-------------|-----------------|-------------|---------------|-------------|----------------------|-------------|---------------|-------------|
| | AM Peak Delay | AM Peak LOS | PM Peak Delay | PM Peak LOS | AM Peak Delay | AM Peak LOS | PM Peak Delay | PM Peak LOS | AM Peak Delay | AM Peak LOS | PM Peak Delay | PM Peak LOS | AM Peak Delay | AM Peak LOS | PM Peak Delay | PM Peak LOS | AM Peak Delay | AM Peak LOS | PM Peak Delay | PM Peak LOS |
| STOP SIGN CONTROL | | | | | | | | | | | | | | | | | | | | |
| 3. Potomac Street at Existing Access | 0 | A | 0 | A | 0 | A | 0 | A | 1 | A | 2 | A | 0 | A | 0 | A | 1 | A | 2 | A |
| Westbound Left+Right | 15 | C | 0 | A | 16 | C | 0 | A | 15 | B | 22 | C | 16 | C | 0 | A | 16 | C | 21 | C |
| Northbound Through+Right | 0 | A | 0 | A | 0 | A | 0 | A | 0 | A | 0 | A | 0 | A | 0 | A | 0 | A | 0 | A |
| Southbound Left | 0 | A | 0 | A | 0 | A | 0 | A | 8 | A | 10 | A | 0 | A | 0 | A | 8 | A | 10 | A |
| Southbound Through | 0 | A | 0 | A | 0 | A | 0 | A | 0 | A | 0 | A | 0 | A | 0 | A | 0 | A | 0 | A |
| 4. Potomac Street at Arkansas Drive | 3 | A | 3 | A | 3 | A | 3 | A | 2 | A | 3 | A | 3 | A | 4 | A | 3 | A | 4 | A |
| Eastbound Left | 24 | C | 19 | C | 25 | C | 20 | C | 27 | D | 21 | C | 27 | D | 22 | C | 27 | D | 24 | C |
| Eastbound Through+Right | 12 | B | 11 | B | 13 | B | 11 | B | 13 | B | 11 | B | 13 | B | 11 | B | 13 | B | 11 | B |
| Westbound Left | 23 | C | 17 | C | 24 | C | 17 | C | 25 | D | 18 | C | 26 | D | 19 | C | 26 | D | 21 | C |
| Westbound Through+Right | 11 | B | 11 | B | 11 | B | 11 | B | 11 | B | 11 | B | 11 | B | 12 | B | 11 | B | 12 | B |
| Northbound Left | 8 | A | 8 | A | 8 | A | 8 | A | 8 | A | 8 | A | 8 | A | 8 | A | 8 | A | 8 | A |
| Northbound Through+Right | 0 | A | 0 | A | 0 | A | 0 | A | 0 | A | 0 | A | 0 | A | 0 | A | 0 | A | 0 | A |
| Southbound Left | 8 | A | 8 | A | 8 | A | 8 | A | 8 | A | 8 | A | 8 | A | 8 | A | 8 | A | 8 | A |
| Southbound Through+Right | 0 | A | 0 | A | 0 | A | 0 | A | 0 | A | 0 | A | 0 | A | 0 | A | 0 | A | 0 | A |
| 5. Louisiana Avenue at Wheeling Way | 8 | A | 8 | A | 8 | A | 8 | A | 8 | A | 8 | A | 8 | A | 8 | A | 8 | A | 8 | A |
| Eastbound Left+Through+Right | 8 | A | 8 | A | 8 | A | 8 | A | 8 | A | 8 | A | 8 | A | 8 | A | 8 | A | 8 | A |
| Westbound Left+Through+Right | 8 | A | 8 | A | 8 | A | 8 | A | 8 | A | 8 | A | 8 | A | 8 | A | 8 | A | 8 | A |
| Northbound Left+Through+Right | 8 | A | 8 | A | 8 | A | 8 | A | 8 | A | 8 | A | 8 | A | 8 | A | 8 | A | 8 | A |
| Southbound Left+Through+Right | 8 | A | 8 | A | 8 | A | 8 | A | 8 | A | 8 | A | 8 | A | 8 | A | 8 | A | 8 | A |
| SIGNAL CONTROL | | | | | | | | | | | | | | | | | | | | |
| 1. Potomac Street at Mississippi Avenue | 31 | C | 31 | C | 31 | C | 32 | C | 35 | C | 33 | C | 33 | C | 32 | C | 34 | C | 33 | C |
| Eastbound Left | 69 | E | 67 | E | 69 | E | 67 | E | 69 | E | 67 | E | 70 | E | 67 | E | 70 | E | 67 | E |
| Eastbound Through | 32 | C | 27 | C | 33 | C | 29 | C | 37 | D | 31 | C | 38 | D | 31 | C | 40 | D | 33 | C |
| Eastbound Right | 0 | A | 0 | A | 0 | A | 0 | A | 0 | A | 0 | A | 0 | A | 0 | A | 0 | A | 0 | A |
| Westbound Left | 53 | D | 56 | E | 54 | D | 57 | E | 54 | D | 58 | E | 54 | D | 59 | E | 54 | D | 60 | E |
| Westbound Through+Right | 15 | B | 20 | B | 15 | B | 21 | C | 17 | B | 22 | C | 18 | B | 21 | C | 18 | B | 22 | C |
| Northbound Left | 50 | D | 45 | D | 50 | D | 44 | D | 65 | E | 43 | D | 50 | D | 46 | D | 50 | D | 46 | D |
| Northbound Through | 58 | E | 53 | D | 58 | E | 53 | D | 63 | E | 51 | D | 58 | E | 56 | E | 58 | E | 56 | E |
| Northbound Right | 0 | A | 0 | A | 0 | A | 0 | A | 0 | A | 0 | A | 0 | A | 0 | A | 0 | A | 0 | A |
| Southbound Left | 46 | D | 42 | D | 45 | D | 42 | D | 44 | D | 40 | D | 45 | D | 45 | D | 45 | D | 45 | D |
| Southbound Through | 51 | D | 49 | D | 50 | D | 49 | D | 48 | D | 50 | D | 50 | D | 53 | D | 50 | D | 56 | E |
| Southbound Right | 50 | D | 59 | E | 50 | D | 59 | E | 48 | D | 59 | E | 49 | D | 46 | D | 49 | D | 47 | D |
| 2. Potomac Street at Louisiana Avenue | 11 | B | 10 | B | 11 | B | 11 | B | 11 | B | 11 | B | 11 | B | 11 | B | 12 | B | 11 | B |
| Eastbound Left+Through | 59 | E | 59 | E | 59 | E | 59 | E | 59 | E | 59 | E | 59 | E | 59 | E | 59 | E | 59 | E |
| Eastbound Right | 55 | D | 53 | D | 55 | D | 52 | D | 55 | E | 53 | D | 55 | D | 53 | D | 55 | E | 54 | D |
| Westbound Left+Through+Right | 56 | E | 53 | D | 56 | E | 52 | D | 56 | E | 52 | D | 61 | E | 53 | D | 61 | E | 53 | D |
| Northbound Left | 10 | A | 4 | A | 10 | B | 5 | A | 12 | B | 5 | A | 10 | B | 4 | A | 12 | B | 5 | A |
| Northbound Through+Right | 3 | A | 6 | A | 3 | A | 6 | A | 3 | A | 7 | A | 3 | A | 5 | A | 3 | A | 6 | A |
| Southbound Left | 0 | A | 0 | A | 0 | A | 0 | A | 0 | A | 0 | A | 0 | A | 0 | A | 0 | A | 0 | A |
| Southbound Through+Right | 7 | A | 4 | A | 7 | A | 4 | A | 8 | A | 4 | A | 7 | A | 4 | A | 8 | A | 4 | A |

Note: Delay represented in average seconds per vehicle.

Aurora (Potomac) Mental Health Center Traffic Impact Study

Table 1 - Peak Hour Intersection Level of Service Summary

| Intersection and Lanes Groups | 2022 Existing | | | | 2025 Background | | | | 2025 Bkgd + Project | | | | 2040 Background | | | | 2040 Bkgd + Project | | | |
|--|---------------|-------------|---------------|-------------|-----------------|-------------|---------------|-------------|---------------------|-------------|---------------|-------------|-----------------|-------------|---------------|-------------|---------------------|-------------|---------------|-------------|
| | AM Peak Delay | AM Peak LOS | PM Peak Delay | PM Peak LOS | AM Peak Delay | AM Peak LOS | PM Peak Delay | PM Peak LOS | AM Peak Delay | AM Peak LOS | PM Peak Delay | PM Peak LOS | AM Peak Delay | AM Peak LOS | PM Peak Delay | PM Peak LOS | AM Peak Delay | AM Peak LOS | PM Peak Delay | PM Peak LOS |
| STOP SIGN CONTROL | | | | | | | | | | | | | | | | | | | | |
| 3. Potomac Street at Existing Access | 0 | A | 0 | A | 0 | A | 0 | A | 1 | A | 2 | A | 0 | A | 0 | A | 1 | A | 2 | A |
| Westbound Left+Right | 15 | C | 0 | A | 16 | C | 0 | A | 15 | B | 22 | C | 16 | C | 0 | A | 16 | C | 21 | C |
| Northbound Through+Right | 0 | A | 0 | A | 0 | A | 0 | A | 0 | A | 0 | A | 0 | A | 0 | A | 0 | A | 0 | A |
| Southbound Left | 0 | A | 0 | A | 0 | A | 0 | A | 8 | A | 10 | A | 0 | A | 0 | A | 8 | A | 10 | A |
| Southbound Through | 0 | A | 0 | A | 0 | A | 0 | A | 0 | A | 0 | A | 0 | A | 0 | A | 0 | A | 0 | A |
| 4. Potomac Street at Arkansas Drive | 3 | A | 3 | A | 3 | A | 3 | A | 2 | A | 3 | A | 3 | A | 4 | A | 3 | A | 4 | A |
| Eastbound Left | 24 | C | 19 | C | 25 | C | 20 | C | 27 | D | 21 | C | 27 | D | 22 | C | 27 | D | 24 | C |
| Eastbound Through+Right | 12 | B | 11 | B | 13 | B | 11 | B | 13 | B | 11 | B | 13 | B | 11 | B | 13 | B | 11 | B |
| Westbound Left | 23 | C | 17 | C | 24 | C | 17 | C | 25 | D | 18 | C | 26 | D | 19 | C | 26 | D | 21 | C |
| Westbound Through+Right | 11 | B | 11 | B | 11 | B | 11 | B | 11 | B | 11 | B | 11 | B | 12 | B | 11 | B | 12 | B |
| Northbound Left | 8 | A | 8 | A | 8 | A | 8 | A | 8 | A | 8 | A | 8 | A | 8 | A | 8 | A | 8 | A |
| Northbound Through+Right | 0 | A | 0 | A | 0 | A | 0 | A | 0 | A | 0 | A | 0 | A | 0 | A | 0 | A | 0 | A |
| Southbound Left | 8 | A | 8 | A | 8 | A | 8 | A | 8 | A | 8 | A | 8 | A | 8 | A | 8 | A | 8 | A |
| Southbound Through+Right | 0 | A | 0 | A | 0 | A | 0 | A | 0 | A | 0 | A | 0 | A | 0 | A | 0 | A | 0 | A |
| 5. Louisiana Avenue at Wheeling Way | 8 | A | 8 | A | 8 | A | 8 | A | 8 | A | 8 | A | 8 | A | 8 | A | 8 | A | 8 | A |
| Eastbound Left+Through+Right | 8 | A | 8 | A | 8 | A | 8 | A | 8 | A | 8 | A | 8 | A | 8 | A | 8 | A | 8 | A |
| Westbound Left+Through+Right | 8 | A | 8 | A | 8 | A | 8 | A | 8 | A | 8 | A | 8 | A | 8 | A | 8 | A | 8 | A |
| Northbound Left+Through+Right | 8 | A | 8 | A | 8 | A | 8 | A | 8 | A | 8 | A | 8 | A | 8 | A | 8 | A | 8 | A |
| Southbound Left+Through+Right | 8 | A | 8 | A | 8 | A | 8 | A | 8 | A | 8 | A | 8 | A | 8 | A | 8 | A | 8 | A |
| SIGNAL CONTROL | | | | | | | | | | | | | | | | | | | | |
| 1. Potomac Street at Mississippi Avenue | 31 | C | 31 | C | 31 | C | 32 | C | 35 | C | 33 | C | 33 | C | 32 | C | 34 | C | 33 | C |
| Eastbound Left | 69 | E | 67 | E | 69 | E | 67 | E | 69 | E | 67 | E | 70 | E | 67 | E | 70 | E | 67 | E |
| Eastbound Through | 32 | C | 27 | C | 33 | C | 29 | C | 37 | D | 31 | C | 38 | D | 31 | C | 40 | D | 33 | C |
| Eastbound Right | 0 | A | 0 | A | 0 | A | 0 | A | 0 | A | 0 | A | 0 | A | 0 | A | 0 | A | 0 | A |
| Westbound Left | 53 | D | 56 | E | 54 | D | 57 | E | 54 | D | 58 | E | 54 | D | 59 | E | 54 | D | 60 | E |
| Westbound Through+Right | 15 | B | 20 | B | 15 | B | 21 | C | 17 | B | 22 | C | 18 | B | 21 | C | 18 | B | 22 | C |
| Northbound Left | 50 | D | 45 | D | 50 | D | 44 | D | 65 | E | 43 | D | 50 | D | 46 | D | 50 | D | 46 | D |
| Northbound Through | 58 | E | 53 | D | 58 | E | 53 | D | 63 | E | 51 | D | 58 | E | 56 | E | 58 | E | 56 | E |
| Northbound Right | 0 | A | 0 | A | 0 | A | 0 | A | 0 | A | 0 | A | 0 | A | 0 | A | 0 | A | 0 | A |
| Southbound Left | 46 | D | 42 | D | 45 | D | 42 | D | 44 | D | 40 | D | 45 | D | 45 | D | 45 | D | 45 | D |
| Southbound Through | 51 | D | 49 | D | 50 | D | 49 | D | 48 | D | 50 | D | 50 | D | 53 | D | 50 | D | 56 | E |
| Southbound Right | 50 | D | 59 | E | 50 | D | 59 | E | 48 | D | 59 | E | 49 | D | 46 | D | 49 | D | 47 | D |
| 2. Potomac Street at Louisiana Avenue | 11 | B | 10 | B | 11 | B | 11 | B | 11 | B | 11 | B | 11 | B | 11 | B | 12 | B | 11 | B |
| Eastbound Left+Through | 59 | E | 59 | E | 59 | E | 59 | E | 59 | E | 59 | E | 59 | E | 59 | E | 59 | E | 59 | E |
| Eastbound Right | 55 | D | 53 | D | 55 | D | 52 | D | 55 | E | 53 | D | 55 | D | 53 | D | 55 | E | 54 | D |
| Westbound Left+Through+Right | 56 | E | 53 | D | 56 | E | 52 | D | 56 | E | 52 | D | 61 | E | 53 | D | 61 | E | 53 | D |
| Northbound Left | 10 | A | 4 | A | 10 | B | 5 | A | 12 | B | 5 | A | 10 | B | 4 | A | 12 | B | 5 | A |
| Northbound Through+Right | 3 | A | 6 | A | 3 | A | 6 | A | 3 | A | 7 | A | 3 | A | 5 | A | 3 | A | 6 | A |
| Southbound Left | 0 | A | 0 | A | 0 | A | 0 | A | 0 | A | 0 | A | 0 | A | 0 | A | 0 | A | 0 | A |
| Southbound Through+Right | 7 | A | 4 | A | 7 | A | 4 | A | 8 | A | 4 | A | 7 | A | 4 | A | 8 | A | 4 | A |

Note: Delay represented in average seconds per vehicle.

Table 3 - Trip Generation Summary

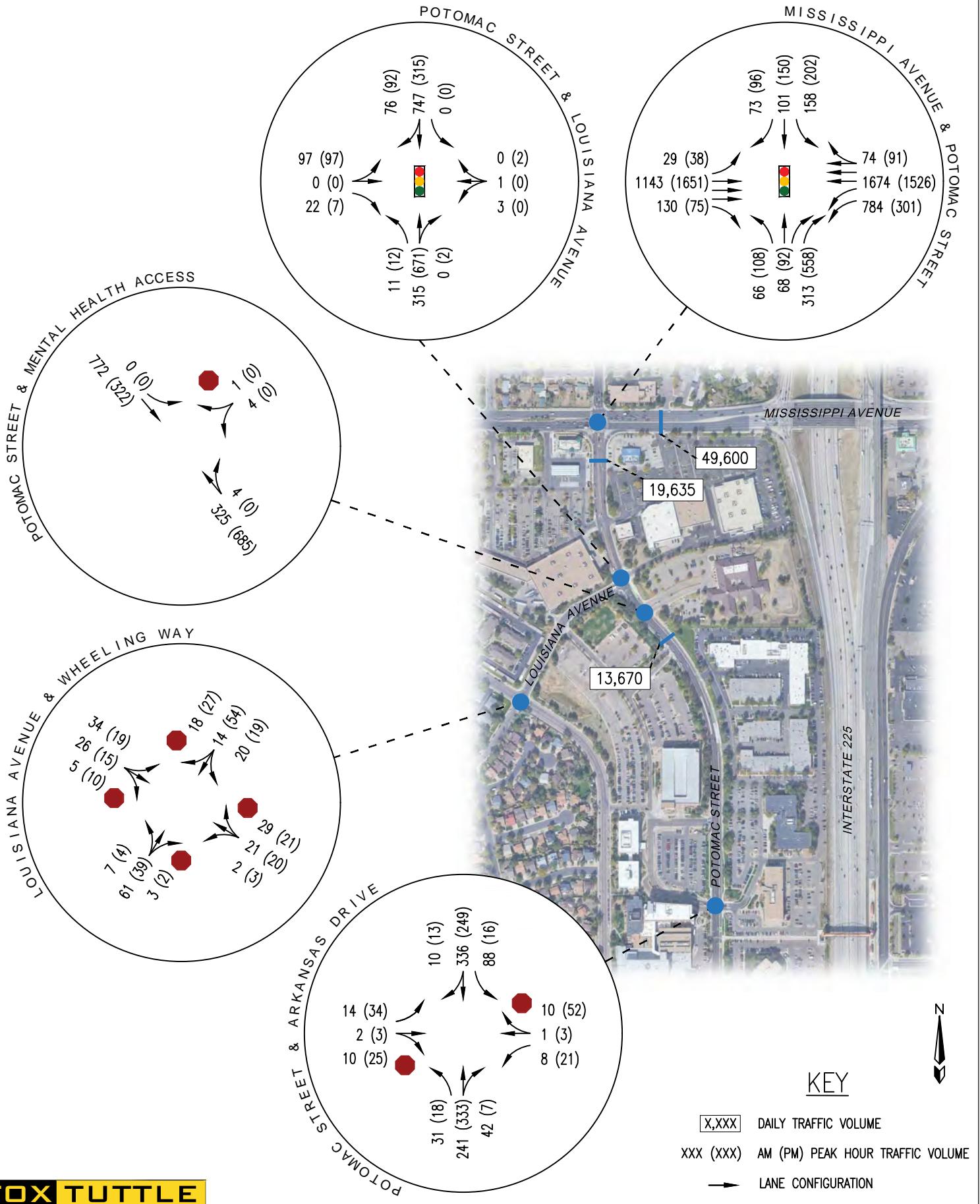
| Land Use | Size | Unit | Internal Capture | Non-Auto Factor | Average Daily Trips | | | | AM Peak Hour Trips | | | | PM Peak Hour Trips | | | |
|-----------------------------|------|------|------------------|-----------------|---------------------|------------|------------|-----|--------------------|-----------|-----------|-----|--------------------|-----------|------------|-----|
| | | | | | Rate | Total | In | Out | Rate | Total | In | Out | Rate | Total | In | Out |
| ITE#223: Affordable Housing | 40 | DU | 1.00 | 0.95 | 4.81 | 183 | 92 | 91 | 0.36 | 14 | 4 | 10 | 0.46 | 17 | 10 | 7 |
| ITE#630: Clinic | 30 | ksf | 1.00 | 0.95 | 37.60 | 1,072 | 536 | 536 | 2.75 | 78 | 63 | 15 | 3.69 | 105 | 32 | 73 |
| ITE#610: Hospital | 50 | ksf | 1.00 | 0.95 | 10.77 | 512 | 256 | 256 | 0.82 | 39 | 26 | 13 | 0.86 | 41 | 14 | 27 |
| Total Trips | | | | | 1,767 | 884 | 883 | | 131 | 93 | 38 | | 163 | 56 | 107 | |

Source : ITE Trip Generation 11th Edition, 2021.





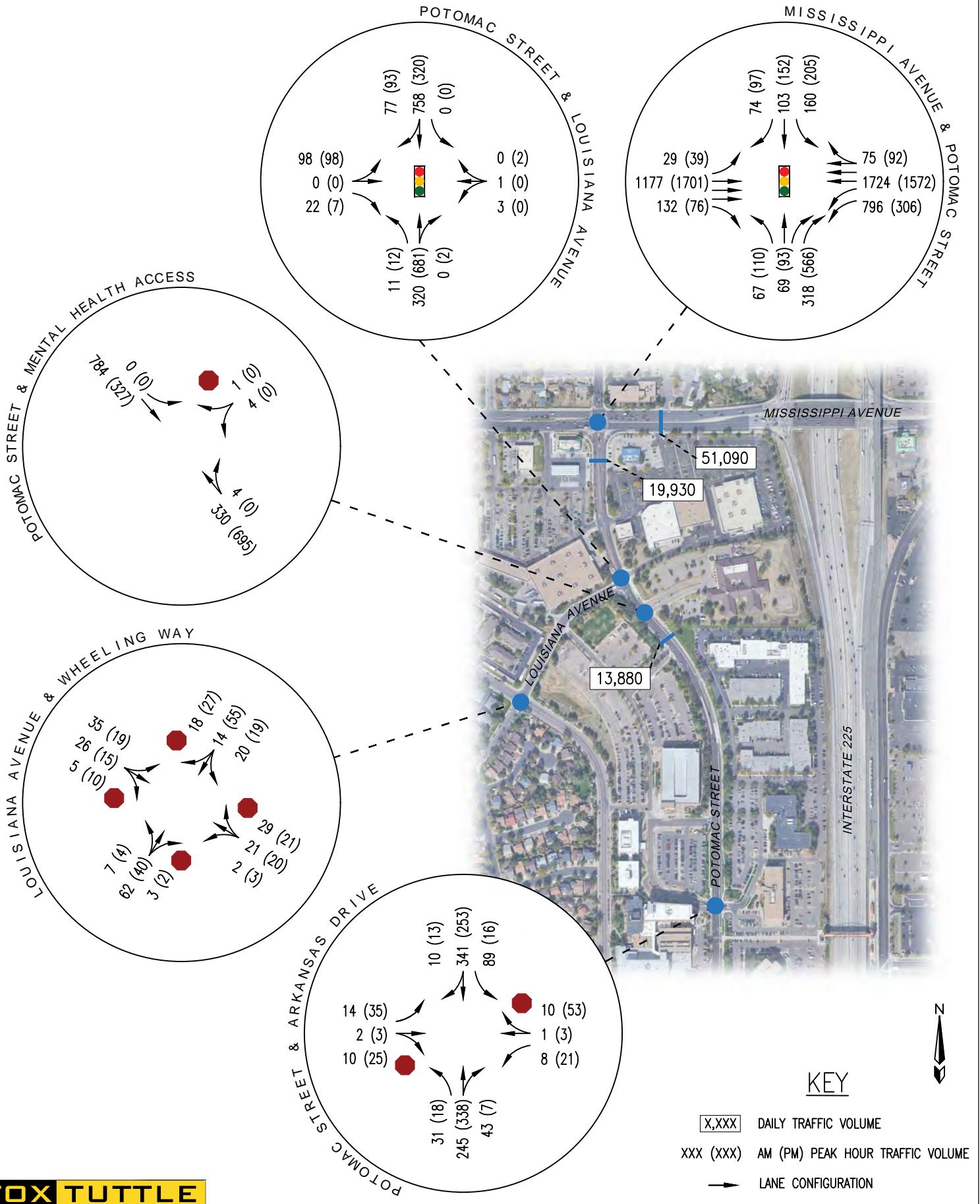
Existing Access to remain with some modification; Full-Movement & Side-Street Stop-Control

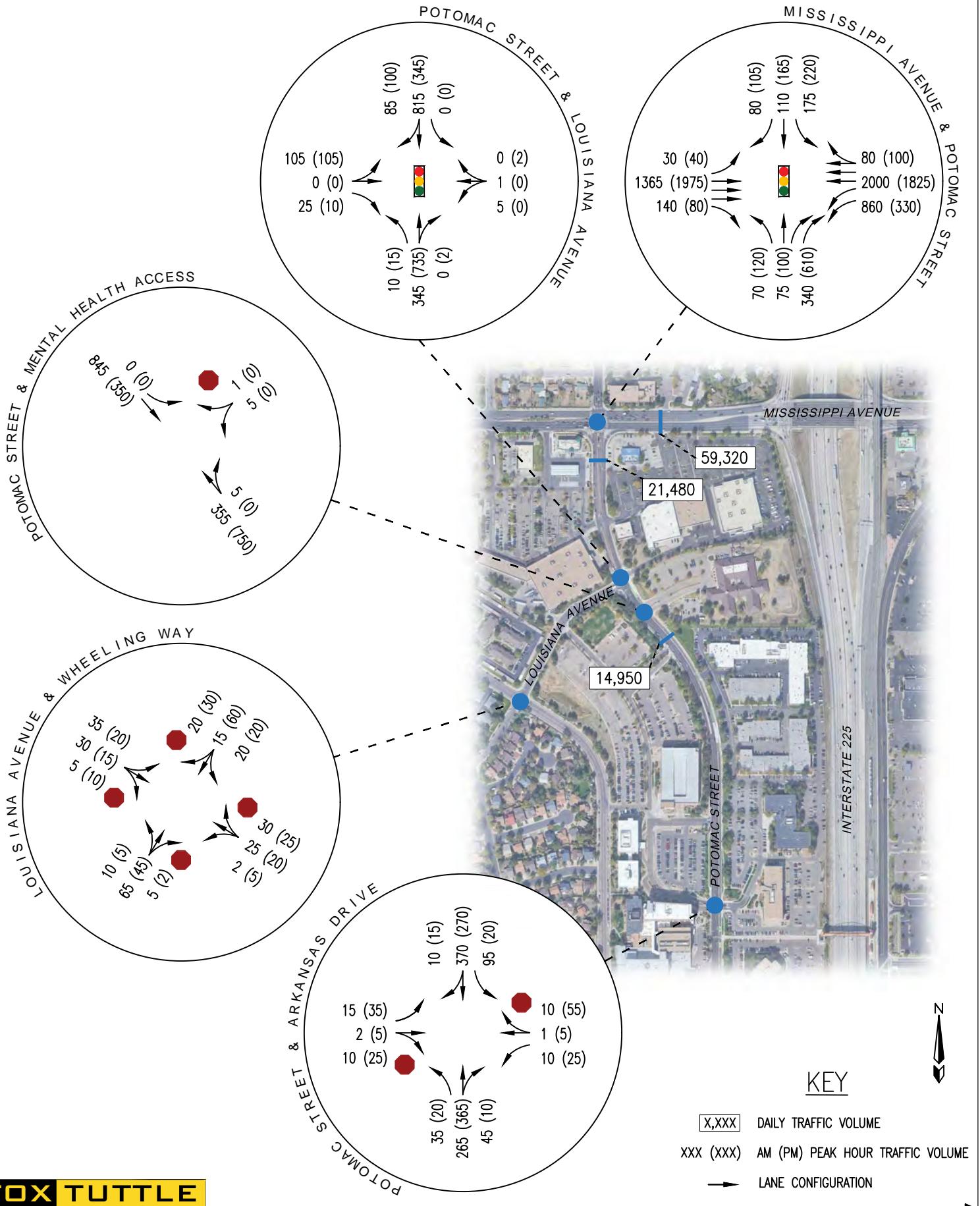


FOX TUTTLE
TRANSPORTATION GROUP

AURORA (POTOMAC) MENTAL HEALTH CENTER - AURORA, CO
EXISTING TRAFFIC VOLUMES

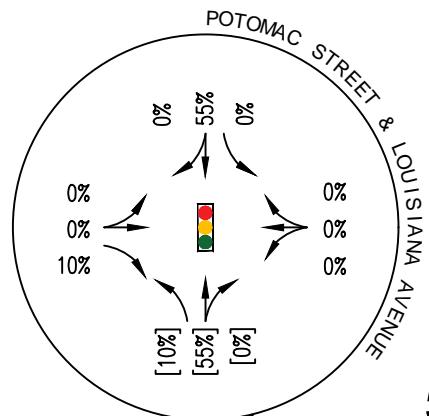
| Project # | 22023 | Original Scale | NTS | Date | 5/16/2022 | Drawn by | CRS | Figure # | 3 |
|-----------|-------|----------------|-----|------|-----------|----------|-----|----------|---|
|-----------|-------|----------------|-----|------|-----------|----------|-----|----------|---|





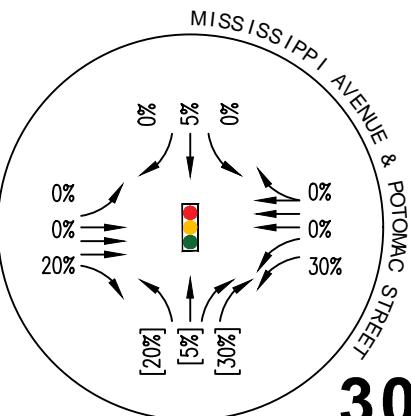
20%

To/From West via Mississippi Avenue



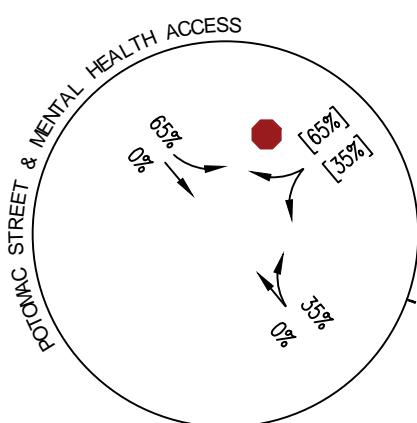
5%

To/From North via Potomac Street



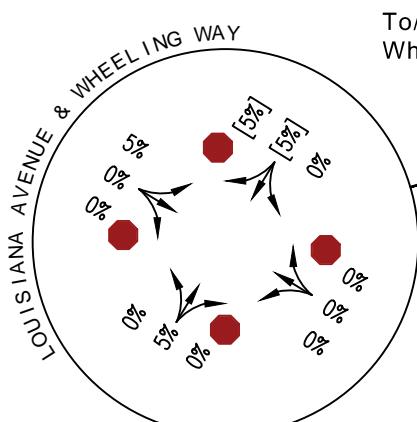
30%

To/From East via Mississippi Avenue



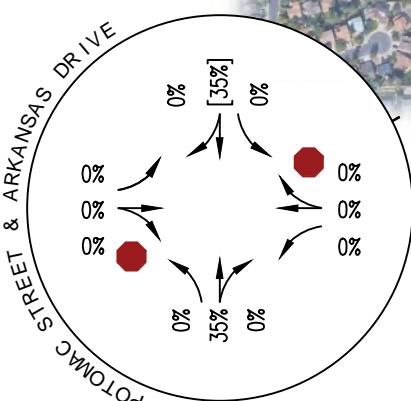
5%

To/From West via Wheeling Way



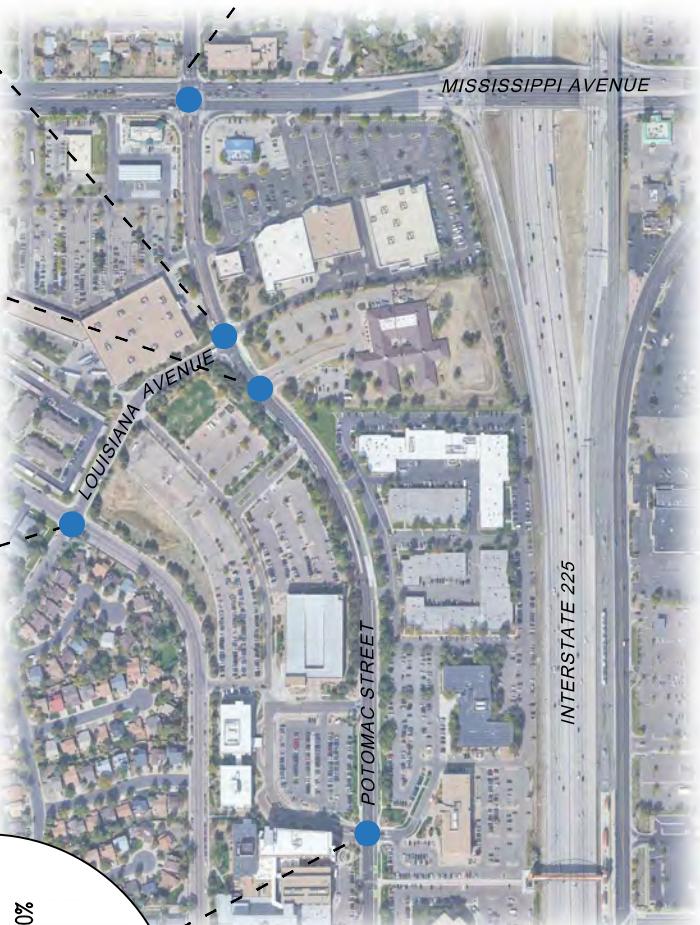
5%

To/From South via Louisiana Avenue



35%

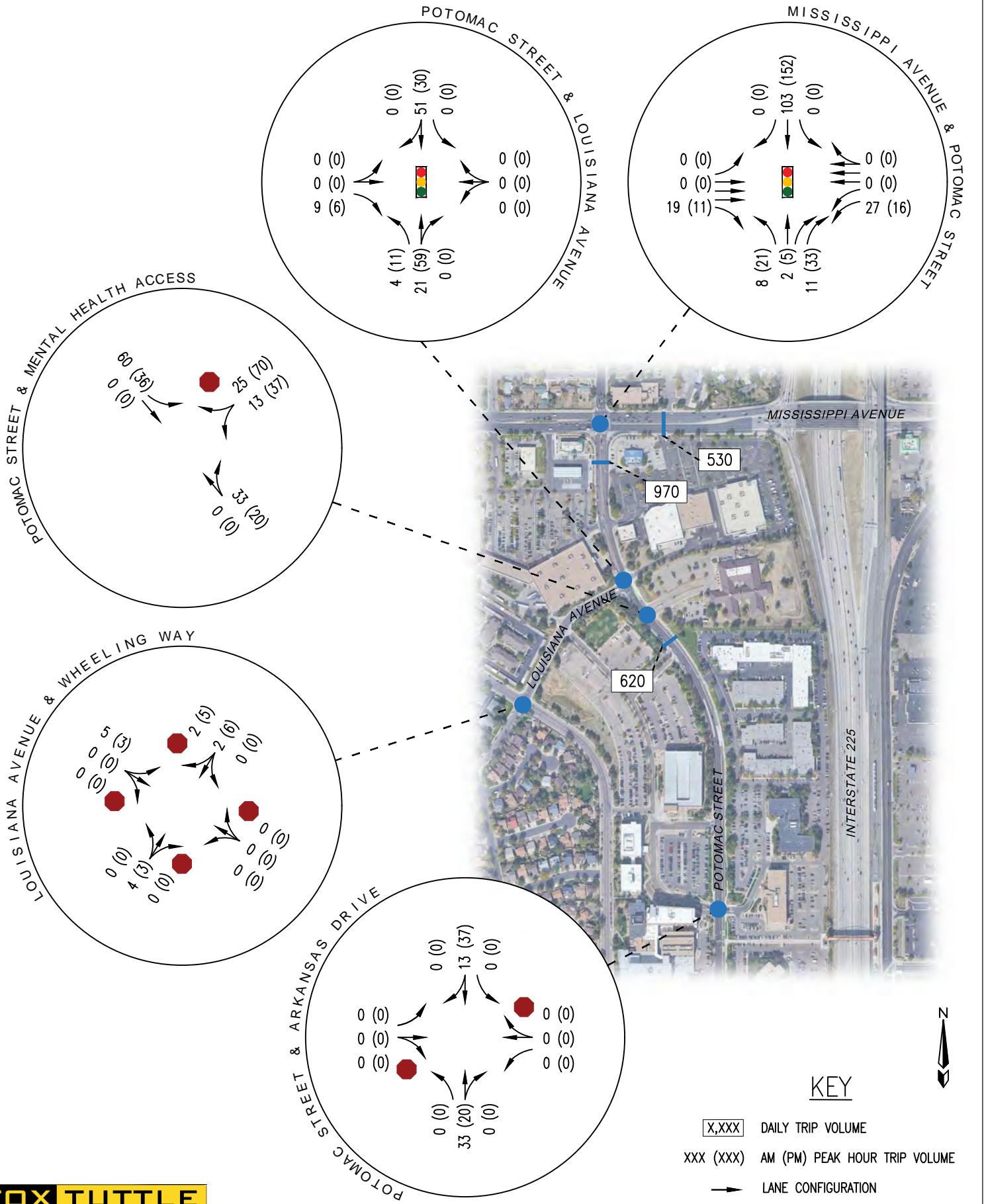
To/From South via Potomac Street

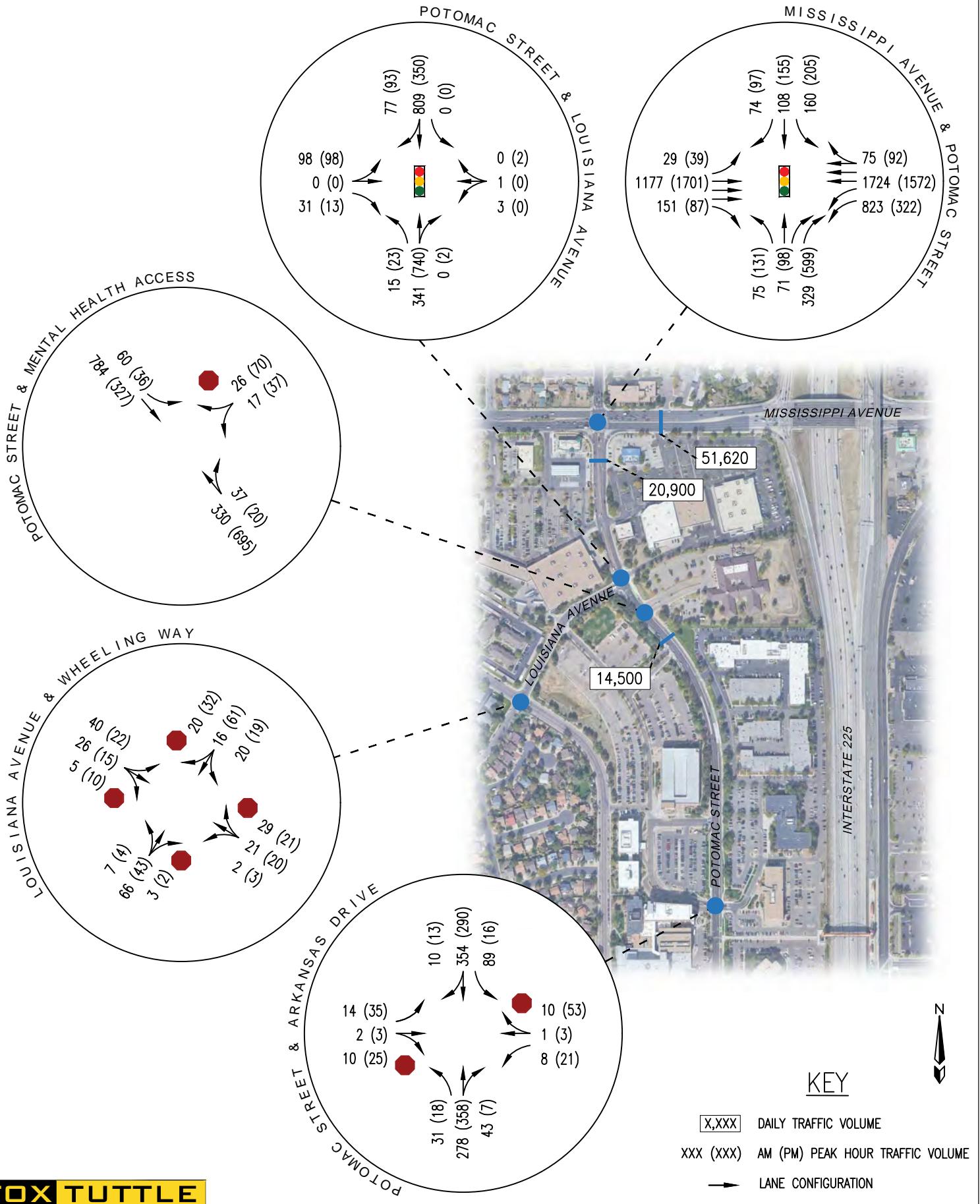


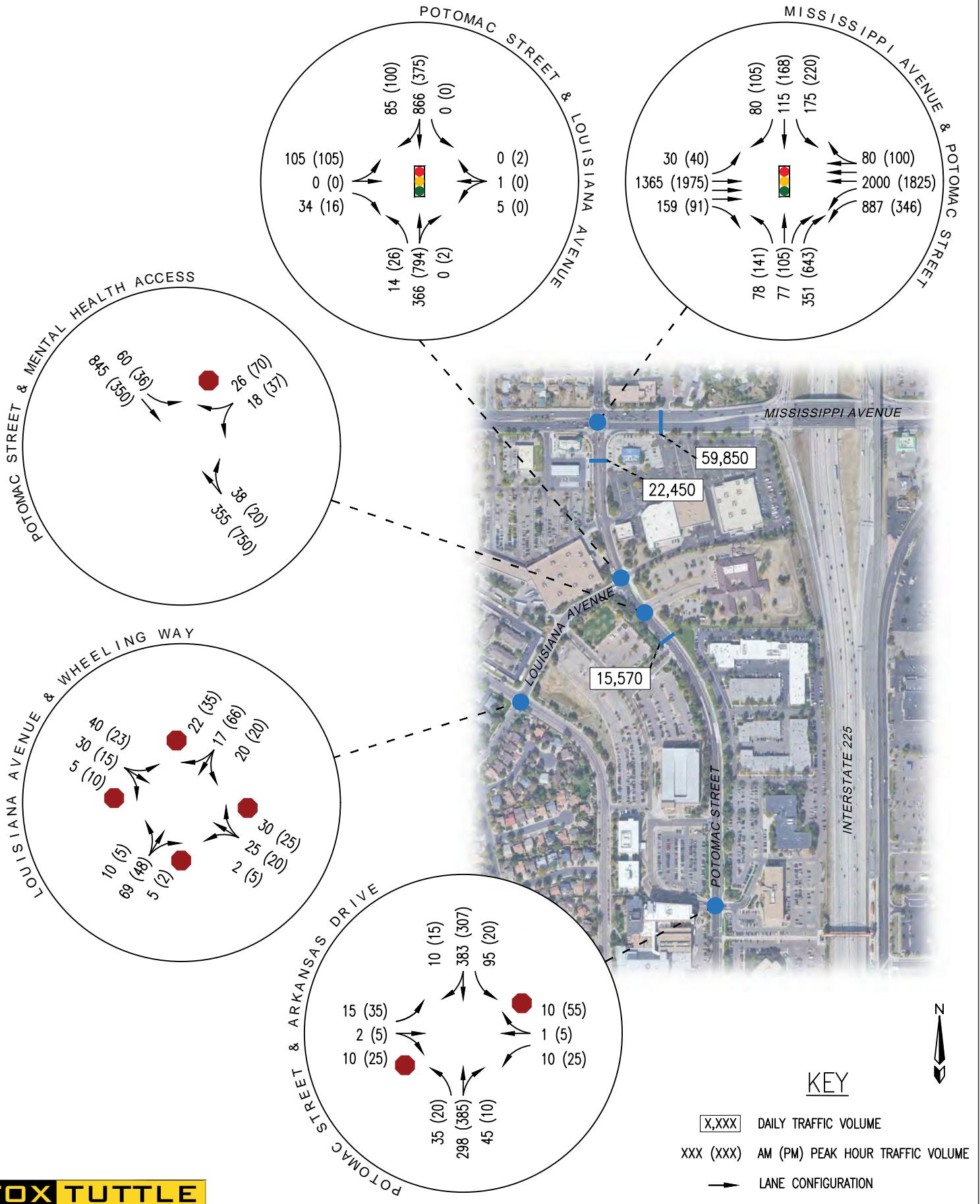
KEY

XX% [XX%] ENTERING [EXITING] PERCENTAGE

→ LANE CONFIGURATION









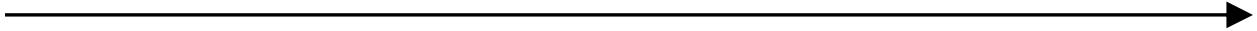
Appendix:

Level of Service Definitions

Existing Traffic Data

Intersection Capacity Worksheets

Signal Warrant Worksheets



Level of Service Definitions



LEVEL OF SERVICE DEFINITIONS

In rating roadway and intersection operating conditions with existing or future traffic volumes, "Levels of Service" (LOS) A through F are used, with LOS A indicating very good operation and LOS F indicating poor operation. Levels of service at signalized and unsignalized intersections are closely associated with vehicle delays experienced in seconds per vehicle. More complete level of service definitions and delay data for signal and stop sign controlled intersections are contained in the following table for reference.

| Level of Service Rating | Delay in seconds per vehicle (a) | | Definition |
|-------------------------|----------------------------------|--------------|--|
| | Signalized | Unsignalized | |
| A | 0.0 to 10.0 | 0.0 to 10.0 | Low vehicular traffic volumes; primarily free flow operations. Density is low and vehicles can freely maneuver within the traffic stream. Drivers are able to maintain their desired speeds with little or no delay. |
| B | 10.1 to 20.0 | 10.1 to 15.0 | Stable vehicular traffic volume flow with potential for some restriction of operating speeds due to traffic conditions. Vehicle maneuvering is only slightly restricted. The stopped delays are not bothersome and drivers are not subject to appreciable tension. |
| C | 20.1 to 35.0 | 15.1 to 25.0 | Stable traffic operations, however the ability for vehicles to maneuver is more restricted by the increase in traffic volumes. Relatively satisfactory operating speeds prevail, but adverse signal coordination or longer vehicle queues cause delays along the corridor. |
| D | 35.1 to 55.0 | 25.1 to 35.0 | Approaching unstable vehicular traffic flow where small increases in volume could cause substantial delays. Most drivers are restricted in ability to maneuver and selection of travel speeds due to congestion. Driver comfort and convenience are low, but tolerable. |
| E | 55.1 to 80.0 | 35.1 to 50.0 | Traffic operations characterized by significant approach delays and average travel speeds of one-half to one-third the free flow speed. Vehicular flow is unstable and there is potential for stoppages of brief duration. High signal density, extensive vehicle queuing, or corridor signal progression/timing are the typical causes of vehicle delays at signalized corridors. |
| F | > 80.0 | > 50.0 | Forced vehicular traffic flow and operations with high approach delays at critical intersections. Vehicle speeds are reduced substantially, and stoppages may occur for short or long periods of time because of downstream congestion. |

(a) Delay ranges based on Highway Capacity Manual (6th Edition, 2016) criteria.

Existing Traffic Data



Vehicle Classification Report Summary

Location: POTOMAC ST N-O EXISTING ACCESS

Count Direction: Northbound / Southbound

Date Range: 4/27/2022 to 4/27/2022

Site Code: 01

| | FHWA Vehicle Classification | | | | | | | | | | | | | Total Volume |
|--------------------|-----------------------------|--------|-------|------|------|------|------|------|------|------|------|------|------|--------------|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | |
| Study Total | | | | | | | | | | | | | | |
| Northbound | 10 | 5,714 | 820 | 0 | 316 | 11 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 6,875 |
| Percent | 0.1% | 83.1% | 11.9% | 0.0% | 4.6% | 0.2% | 0.0% | 0.0% | 0.1% | 0.0% | 0.0% | 0.0% | 0.0% | 100% |
| Southbound | 19 | 5,603 | 656 | 1 | 209 | 11 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 6,501 |
| Percent | 0.3% | 86.2% | 10.1% | 0.0% | 3.2% | 0.2% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 100% |
| Total | 29 | 11,317 | 1,476 | 1 | 525 | 22 | 0 | 1 | 4 | 1 | 0 | 0 | 0 | 13,376 |
| Percent | 0.2% | 84.6% | 11.0% | 0.0% | 3.9% | 0.2% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 100% |

| FHWA Vehicle Classification | |
|--|--|
| Class 1 - Motorcycles | Class 8 - Four or Fewer Axle Single-Trailer Trucks |
| Class 2 - Passenger Cars | Class 9 - Five-Axle Single-Trailer Trucks |
| Class 3 - Other Two-Axle, Four-Tire Single Unit Vehicles | Class 10 - Six or More Axle Single-Trailer Trucks |
| Class 4 - Buses | Class 11 - Five or fewer Axle Multi-Trailer Trucks |
| Class 5 - Two-Axle, Six-Tire, Single-Unit Trucks | Class 12 - Six-Axle Multi-Trailer Trucks |
| Class 6 - Three-Axle Single-Unit Trucks | Class 13 - Seven or More Axle Multi-Trailer Trucks |
| Class 7 - Four or More Axle Single-Unit Trucks | |

Vehicle Speed Report Summary

Location: POTOMAC ST N-O EXISTING ACCESS

Count Direction: Northbound / Southbound

Date Range: 4/27/2022 to 4/27/2022

Site Code: 01

| | Speed Range (mph) | | | | | | | | | | | | | | | | | Total Volume |
|-------------------|-------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|------|--------------|
| | 0 - 10 | 10 - 15 | 15 - 20 | 20 - 25 | 25 - 30 | 30 - 35 | 35 - 40 | 40 - 45 | 45 - 50 | 50 - 55 | 55 - 60 | 60 - 65 | 65 - 70 | 70 - 75 | 75 - 80 | 80 - 85 | 85 + | |
| Study Total | | | | | | | | | | | | | | | | | | |
| Northbound | 94 | 474 | 1,074 | 1,348 | 1,659 | 1,660 | 497 | 58 | 10 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6,875 |
| Percent | 1.4% | 6.9% | 15.6% | 19.6% | 24.1% | 24.1% | 7.2% | 0.8% | 0.1% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 100% |
| Southbound | 21 | 40 | 346 | 2,180 | 2,719 | 957 | 203 | 33 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6,501 |
| Percent | 0.3% | 0.6% | 5.3% | 33.5% | 41.8% | 14.7% | 3.1% | 0.5% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 100% |
| Total | 115 | 514 | 1,420 | 3,528 | 4,378 | 2,617 | 700 | 91 | 12 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 13,376 |
| Percent | 0.9% | 3.8% | 10.6% | 26.4% | 32.7% | 19.6% | 5.2% | 0.7% | 0.1% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 100% |

| Total Study Percentile Speed Summary | | Total Study Speed Statistics | |
|--------------------------------------|----------|------------------------------|-----------------|
| Northbound | | Northbound | |
| 50th Percentile (Median) | 26.5 mph | Mean (Average) Speed | 25.7 mph |
| 85th Percentile | 33.2 mph | 10 mph Pace | 23.9 - 33.9 mph |
| 95th Percentile | 36.1 mph | Percent in Pace | 48.9 % |
| Southbound | | Southbound | |
| 50th Percentile (Median) | 25.9 mph | Mean (Average) Speed | 26.3 mph |
| 85th Percentile | 30.6 mph | 10 mph Pace | 20.8 - 30.8 mph |
| 95th Percentile | 34.2 mph | Percent in Pace | 76.8 % |

Location: POTOMAC ST N-O EXISTING ACCESS

Date Range: 4/27/2022 - 5/3/2022

Site Code: 01

| Time | Wednesday | | | Thursday | | | Friday | | | Saturday | | | Sunday | | | Monday | | | Tuesday | | | | | |
|----------------|--------------|--------------|---------------|-----------|----|-------|-----------|----|-------|-----------|----|-------|----------|----|-------|----------|----|-------|----------|----|--------------|------------------|---------------|-------|
| | 4/27/2022 | | | 4/28/2022 | | | 4/29/2022 | | | 4/30/2022 | | | 5/1/2022 | | | 5/2/2022 | | | 5/3/2022 | | | Mid-Week Average | | |
| | NB | SB | Total | NB | SB | Total | NB | SB | Total | NB | SB | Total | NB | SB | Total | NB | SB | Total | NB | SB | Total | NB | SB | Total |
| 12:00 AM | 28 | 31 | 59 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 28 | 31 | 59 | |
| 1:00 AM | 19 | 25 | 44 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 19 | 25 | 44 | |
| 2:00 AM | 26 | 15 | 41 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 26 | 15 | 41 | |
| 3:00 AM | 29 | 28 | 57 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 29 | 28 | 57 | |
| 4:00 AM | 38 | 27 | 65 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 38 | 27 | 65 | |
| 5:00 AM | 75 | 124 | 199 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 75 | 124 | 199 | |
| 6:00 AM | 168 | 395 | 563 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 168 | 395 | 563 | |
| 7:00 AM | 285 | 602 | 887 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 285 | 602 | 887 | |
| 8:00 AM | 315 | 690 | 1,005 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 315 | 690 | 1,005 | |
| 9:00 AM | 494 | 479 | 973 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 494 | 479 | 973 | |
| 10:00 AM | 480 | 483 | 963 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 480 | 483 | 963 | |
| 11:00 AM | 551 | 406 | 957 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 551 | 406 | 957 | |
| 12:00 PM | 466 | 466 | 932 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 466 | 466 | 932 | |
| 1:00 PM | 486 | 465 | 951 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 486 | 465 | 951 | |
| 2:00 PM | 558 | 457 | 1,015 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 558 | 457 | 1,015 | |
| 3:00 PM | 613 | 406 | 1,019 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 613 | 406 | 1,019 | |
| 4:00 PM | 607 | 305 | 912 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 607 | 305 | 912 | |
| 5:00 PM | 538 | 298 | 836 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 538 | 298 | 836 | |
| 6:00 PM | 308 | 277 | 585 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 308 | 277 | 585 | |
| 7:00 PM | 315 | 187 | 502 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 315 | 187 | 502 | |
| 8:00 PM | 205 | 134 | 339 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 205 | 134 | 339 | |
| 9:00 PM | 111 | 95 | 206 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 111 | 95 | 206 | |
| 10:00 PM | 107 | 70 | 177 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 107 | 70 | 177 | |
| 11:00 PM | 53 | 36 | 89 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 53 | 36 | 89 | |
| Total | 6,875 | 6,501 | 13,376 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 6,875 | 6,501 | 13,376 | |
| Percent | 51% | 49% | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 51% | 49% | - | |

1. Mid-week average includes data between Tuesday and Thursday.

Vehicle Classification Report Summary

Location: POTOMAC ST S-O EXISTING ACCESS

Count Direction: Northbound / Southbound

Date Range: 4/27/2022 to 4/27/2022

Site Code: 02

| | FHWA Vehicle Classification | | | | | | | | | | | | | Total Volume |
|--------------------|-----------------------------|--------|-------|------|------|------|------|------|------|------|------|------|------|--------------|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | |
| Study Total | | | | | | | | | | | | | | |
| Northbound | 7 | 5,835 | 863 | 0 | 312 | 12 | 0 | 0 | 3 | 2 | 0 | 0 | 0 | 7,034 |
| Percent | 0.1% | 83.0% | 12.3% | 0.0% | 4.4% | 0.2% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 100% |
| Southbound | 10 | 5,275 | 944 | 3 | 379 | 21 | 0 | 0 | 5 | 0 | 0 | 0 | 1 | 6,638 |
| Percent | 0.2% | 79.5% | 14.2% | 0.0% | 5.7% | 0.3% | 0.0% | 0.0% | 0.1% | 0.0% | 0.0% | 0.0% | 0.0% | 100% |
| Total | 17 | 11,110 | 1,807 | 3 | 691 | 33 | 0 | 0 | 8 | 2 | 0 | 0 | 1 | 13,672 |
| Percent | 0.1% | 81.3% | 13.2% | 0.0% | 5.1% | 0.2% | 0.0% | 0.0% | 0.1% | 0.0% | 0.0% | 0.0% | 0.0% | 100% |

FHWA Vehicle Classification

| | |
|--|--|
| Class 1 - Motorcycles | Class 8 - Four or Fewer Axle Single-Trailer Trucks |
| Class 2 - Passenger Cars | Class 9 - Five-Axle Single-Trailer Trucks |
| Class 3 - Other Two-Axle, Four-Tire Single Unit Vehicles | Class 10 - Six or More Axle Single-Trailer Trucks |
| Class 4 - Buses | Class 11 - Five or fewer Axle Multi-Trailer Trucks |
| Class 5 - Two-Axle, Six-Tire, Single-Unit Trucks | Class 12 - Six-Axle Multi-Trailer Trucks |
| Class 6 - Three-Axle Single-Unit Trucks | Class 13 - Seven or More Axle Multi-Trailer Trucks |
| Class 7 - Four or More Axle Single-Unit Trucks | |

Vehicle Speed Report Summary

Location: POTOMAC ST S-O EXISTING ACCESS

Count Direction: Northbound / Southbound

Date Range: 4/27/2022 to 4/27/2022

Site Code: 02

| | Speed Range (mph) | | | | | | | | | | | | | | | | Total Volume | |
|--------------------|-------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------------|--------|
| | 0 - 10 | 10 - 15 | 15 - 20 | 20 - 25 | 25 - 30 | 30 - 35 | 35 - 40 | 40 - 45 | 45 - 50 | 50 - 55 | 55 - 60 | 60 - 65 | 65 - 70 | 70 - 75 | 75 - 80 | 80 - 85 | 85 + | |
| Study Total | | | | | | | | | | | | | | | | | | |
| Northbound | 3 | 87 | 310 | 1,089 | 2,572 | 2,254 | 626 | 79 | 12 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7,034 |
| Percent | 0.0% | 1.2% | 4.4% | 15.5% | 36.6% | 32.0% | 8.9% | 1.1% | 0.2% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 100% | |
| Southbound | 21 | 82 | 457 | 1,540 | 2,502 | 1,598 | 372 | 60 | 5 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 6,638 |
| Percent | 0.3% | 1.2% | 6.9% | 23.2% | 37.7% | 24.1% | 5.6% | 0.9% | 0.1% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 100% | |
| Total | 24 | 169 | 767 | 2,629 | 5,074 | 3,852 | 998 | 139 | 17 | 2 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 13,672 |
| Percent | 0.2% | 1.2% | 5.6% | 19.2% | 37.1% | 28.2% | 7.3% | 1.0% | 0.1% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 100% | |

| Total Study Percentile Speed Summary | | Total Study Speed Statistics | |
|--------------------------------------|----------|------------------------------|-----------------|
| Northbound | | Northbound | |
| 50th Percentile (Median) | 29.1 mph | Mean (Average) Speed | 28.8 mph |
| 85th Percentile | 33.9 mph | 10 mph Pace | 24.7 - 34.7 mph |
| 95th Percentile | 36.8 mph | Percent in Pace | 69.3 % |
| Southbound | | Southbound | |
| 50th Percentile (Median) | 27.4 mph | Mean (Average) Speed | 27.3 mph |
| 85th Percentile | 32.7 mph | 10 mph Pace | 22.8 - 32.8 mph |
| 95th Percentile | 35.8 mph | Percent in Pace | 66.4 % |

Location: POTOMAC ST S-O EXISTING ACCESS

Date Range: 4/27/2022 - 5/3/2022

Site Code: 02

| Time | Wednesday | | | Thursday | | | Friday | | | Saturday | | | Sunday | | | Monday | | | Tuesday | | | | | |
|----------------|--------------|--------------|---------------|-----------|----|-------|-----------|----|-------|-----------|----|-------|----------|----|-------|----------|----|-------|----------|----|-------|------------------|--------------|---------------|
| | 4/27/2022 | | | 4/28/2022 | | | 4/29/2022 | | | 4/30/2022 | | | 5/1/2022 | | | 5/2/2022 | | | 5/3/2022 | | | Mid-Week Average | | |
| | NB | SB | Total | NB | SB | Total | NB | SB | Total | NB | SB | Total | NB | SB | Total | NB | SB | Total | NB | SB | Total | NB | SB | Total |
| 12:00 AM | 27 | 31 | 58 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 27 | 31 | 58 |
| 1:00 AM | 18 | 26 | 44 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 18 | 26 | 44 |
| 2:00 AM | 26 | 15 | 41 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 26 | 15 | 41 |
| 3:00 AM | 29 | 28 | 57 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 29 | 28 | 57 |
| 4:00 AM | 38 | 27 | 65 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 38 | 27 | 65 |
| 5:00 AM | 79 | 122 | 201 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 79 | 122 | 201 |
| 6:00 AM | 169 | 395 | 564 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 169 | 395 | 564 |
| 7:00 AM | 288 | 617 | 905 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 288 | 617 | 905 |
| 8:00 AM | 330 | 716 | 1,046 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 330 | 716 | 1,046 |
| 9:00 AM | 477 | 505 | 982 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 477 | 505 | 982 |
| 10:00 AM | 498 | 486 | 984 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 498 | 486 | 984 |
| 11:00 AM | 574 | 406 | 980 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 574 | 406 | 980 |
| 12:00 PM | 489 | 467 | 956 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 489 | 467 | 956 |
| 1:00 PM | 491 | 487 | 978 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 491 | 487 | 978 |
| 2:00 PM | 587 | 454 | 1,041 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 587 | 454 | 1,041 |
| 3:00 PM | 615 | 427 | 1,042 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 615 | 427 | 1,042 |
| 4:00 PM | 633 | 316 | 949 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 633 | 316 | 949 |
| 5:00 PM | 566 | 307 | 873 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 566 | 307 | 873 |
| 6:00 PM | 312 | 277 | 589 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 312 | 277 | 589 |
| 7:00 PM | 312 | 193 | 505 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 312 | 193 | 505 |
| 8:00 PM | 209 | 132 | 341 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 209 | 132 | 341 |
| 9:00 PM | 107 | 97 | 204 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 107 | 97 | 204 |
| 10:00 PM | 107 | 71 | 178 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 107 | 71 | 178 |
| 11:00 PM | 53 | 36 | 89 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 53 | 36 | 89 |
| Total | 7,034 | 6,638 | 13,672 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 7,034 | 6,638 | 13,672 |
| Percent | 51% | 49% | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 51% | 49% | - |

1. Mid-week average includes data between Tuesday and Thursday.

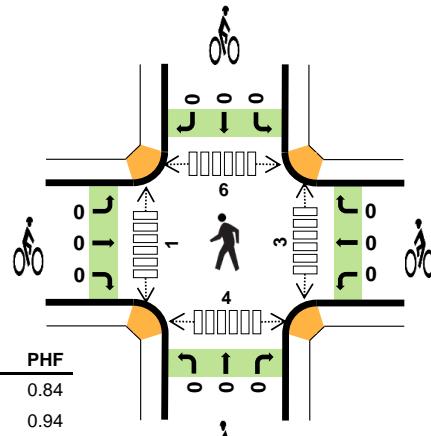
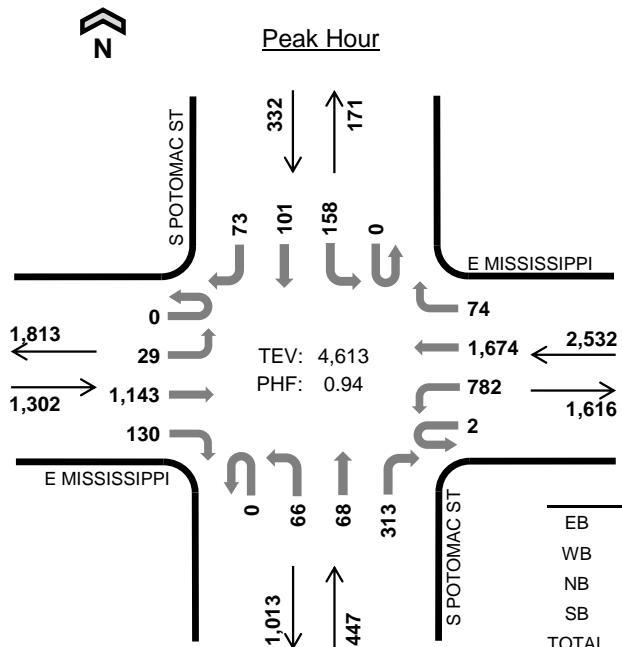
S POTOMAC ST E MISSISSIPPI



Date: 04/27/2022

Count Period: 7:00 AM to 9:00 AM

Peak Hour: 7:30 AM to 8:30 AM



Two-Hour Count Summaries

| Interval Start | E MISSISSIPPI | | | | E MISSISSIPPI | | | | S POTOMAC ST | | | | S POTOMAC ST | | | | 15-min Total | Rolling One Hour | |
|----------------|---------------|-----------|------------|-----------|---------------|------------|------------|-----------|--------------|-----------|-----------|-----------|--------------|-----------|-----------|-----------|--------------|------------------|---|
| | UT | LT | TH | RT | UT | LT | TH | RT | UT | LT | TH | RT | UT | LT | TH | RT | | | |
| 7:00 AM | 0 | 5 | 224 | 8 | 0 | 102 | 239 | 21 | 0 | 13 | 12 | 52 | 0 | 30 | 23 | 6 | 735 | 0 | |
| 7:15 AM | 0 | 3 | 264 | 21 | 3 | 150 | 292 | 16 | 0 | 7 | 15 | 79 | 0 | 41 | 18 | 8 | 917 | 0 | |
| 7:30 AM | 0 | 2 | 248 | 18 | 0 | 168 | 426 | 27 | 0 | 20 | 17 | 98 | 0 | 55 | 17 | 13 | 1,109 | 0 | |
| 7:45 AM | 0 | 8 | 332 | 46 | 1 | 206 | 421 | 25 | 0 | 15 | 18 | 67 | 0 | 39 | 33 | 17 | 1,228 | 3,989 | |
| 8:00 AM | 0 | 7 | 262 | 30 | 1 | 242 | 420 | 12 | 0 | 15 | 8 | 67 | 0 | 32 | 28 | 26 | 1,150 | 4,404 | |
| 8:15 AM | 0 | 12 | 301 | 36 | 0 | 166 | 407 | 10 | 0 | 16 | 25 | 81 | 0 | 32 | 23 | 17 | 1,126 | 4,613 | |
| 8:30 AM | 0 | 6 | 240 | 20 | 0 | 147 | 361 | 17 | 0 | 9 | 8 | 76 | 0 | 28 | 20 | 14 | 946 | 4,450 | |
| 8:45 AM | 0 | 5 | 247 | 32 | 0 | 121 | 349 | 9 | 0 | 27 | 21 | 89 | 0 | 29 | 32 | 21 | 982 | 4,204 | |
| Count Total | 0 | 48 | 2,118 | 211 | 5 | 1,302 | 2,915 | 137 | 0 | 122 | 124 | 609 | 0 | 286 | 194 | 122 | 8,193 | 0 | |
| Peak Hour | All | 0 | 29 | 1,143 | 130 | 2 | 782 | 1,674 | 74 | 0 | 66 | 68 | 313 | 0 | 158 | 101 | 73 | 4,613 | 0 |
| | HV | 0 | 0 | 28 | 0 | 0 | 13 | 53 | 1 | 0 | 0 | 0 | 5 | 0 | 2 | 0 | 0 | 102 | 0 |
| | HV% | - | 0% | 2% | 0% | 0% | 2% | 3% | 1% | - | 0% | 0% | 2% | - | 1% | 0% | 0% | 2% | 0 |

Note: Two-hour count summary volumes include heavy vehicles but exclude bicycles in overall count.

| Interval Start | Heavy Vehicle Totals | | | | Bicycles | | | | Pedestrians (Crossing Leg) | | | | | | | |
|----------------|----------------------|-----------|----------|----------|------------|----------|----------|----------|----------------------------|----------|----------|----------|----------|----------|-----------|--|
| | EB | WB | NB | SB | Total | EB | WB | NB | SB | Total | East | West | North | South | Total | |
| 7:00 AM | 6 | 11 | 2 | 1 | 20 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 2 | 4 | |
| 7:15 AM | 6 | 8 | 1 | 1 | 16 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 2 | 4 | |
| 7:30 AM | 6 | 18 | 4 | 1 | 29 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 2 | |
| 7:45 AM | 2 | 11 | 0 | 1 | 14 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 4 | 0 | 5 | |
| 8:00 AM | 7 | 27 | 1 | 0 | 35 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 1 | 1 | 4 | |
| 8:15 AM | 13 | 11 | 0 | 0 | 24 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 3 | |
| 8:30 AM | 9 | 25 | 3 | 0 | 37 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 0 | 3 | |
| 8:45 AM | 6 | 10 | 7 | 2 | 25 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 2 | 6 | |
| Count Total | 55 | 121 | 18 | 6 | 200 | 0 | 0 | 0 | 1 | 1 | 5 | 5 | 11 | 10 | 31 | |
| Peak Hour | 28 | 67 | 5 | 2 | 102 | 0 | 0 | 0 | 0 | 0 | 3 | 1 | 6 | 4 | 14 | |

| Two-Hour Count Summaries - Heavy Vehicles | | | | | | | | | | | | | | | | | | |
|---|---------------|----------|-----------|----------|---------------|-----------|-----------|----------|--------------|----------|----------|----------|--------------|----------|----------|----------|--------------|------------------|
| Interval Start | E MISSISSIPPI | | | | E MISSISSIPPI | | | | S POTOMAC ST | | | | S POTOMAC ST | | | | 15-min Total | Rolling One Hour |
| | Eastbound | | | | Westbound | | | | Northbound | | | | Southbound | | | | | |
| | UT | LT | TH | RT | UT | LT | TH | RT | UT | LT | TH | RT | UT | LT | TH | RT | | |
| 7:00 AM | 0 | 0 | 6 | 0 | 0 | 4 | 6 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 0 | 20 | 0 |
| 7:15 AM | 0 | 0 | 6 | 0 | 0 | 1 | 7 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 16 | 0 |
| 7:30 AM | 0 | 0 | 6 | 0 | 0 | 2 | 16 | 0 | 0 | 0 | 0 | 4 | 0 | 1 | 0 | 0 | 29 | 0 |
| 7:45 AM | 0 | 0 | 2 | 0 | 0 | 1 | 9 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 14 | 79 |
| 8:00 AM | 0 | 0 | 7 | 0 | 0 | 8 | 19 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 35 | 94 |
| 8:15 AM | 0 | 0 | 13 | 0 | 0 | 2 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 24 | 102 |
| 8:30 AM | 0 | 0 | 7 | 2 | 0 | 5 | 20 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 37 | 110 |
| 8:45 AM | 0 | 0 | 6 | 0 | 0 | 1 | 9 | 0 | 0 | 1 | 0 | 6 | 0 | 2 | 0 | 0 | 25 | 121 |
| Count Total | 0 | 0 | 53 | 2 | 0 | 24 | 95 | 2 | 0 | 1 | 1 | 16 | 0 | 5 | 1 | 0 | 200 | 0 |
| Peak Hour | 0 | 0 | 28 | 0 | 0 | 13 | 53 | 1 | 0 | 0 | 0 | 5 | 0 | 2 | 0 | 0 | 102 | 0 |
| Two-Hour Count Summaries - Bikes | | | | | | | | | | | | | | | | | | |
| Interval Start | E MISSISSIPPI | | | | E MISSISSIPPI | | | | S POTOMAC ST | | | | S POTOMAC ST | | | | 15-min Total | Rolling One Hour |
| | Eastbound | | | | Westbound | | | | Northbound | | | | Southbound | | | | | |
| | LT | TH | RT | | LT | TH | RT | | LT | TH | RT | | LT | TH | RT | | | |
| 7:00 AM | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 |
| 7:15 AM | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 |
| 7:30 AM | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 |
| 7:45 AM | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 |
| 8:00 AM | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 |
| 8:15 AM | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 |
| 8:30 AM | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 | 0 | | 1 | 0 | 0 | | 1 | 1 |
| 8:45 AM | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 1 |
| Count Total | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 | 0 | | 1 | 0 | 0 | | 1 | 0 |
| Peak Hour | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 |

Note: U-Turn volumes for bikes are included in Left-Turn, if any.

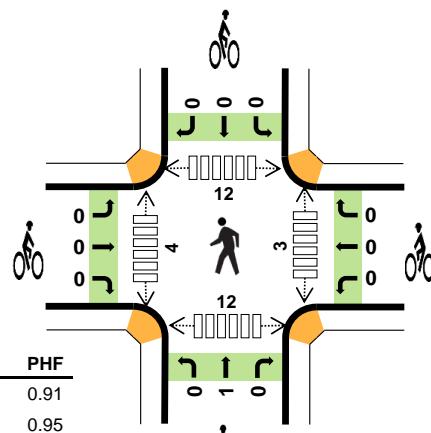
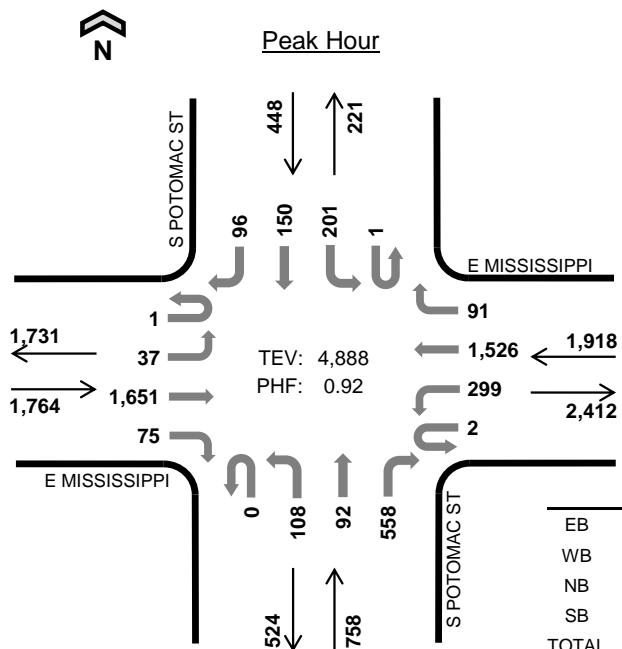
S POTOMAC ST E MISSISSIPPI



Date: 04/27/2022

Count Period: 4:00 PM to 6:00 PM

Peak Hour: 4:00 PM to 5:00 PM



Two-Hour Count Summaries

| Interval Start | E MISSISSIPPI | | | | E MISSISSIPPI | | | | S POTOMAC ST | | | | S POTOMAC ST | | | | 15-min Total | Rolling One Hour | |
|----------------|---------------|----|-------|-------|---------------|-----|-------|-------|--------------|-----|-----|-------|--------------|-----|-----|-----|--------------|------------------|---|
| | UT | LT | TH | RT | UT | LT | TH | RT | UT | LT | TH | RT | UT | LT | TH | RT | | | |
| 4:00 PM | 1 | 8 | 460 | 18 | 0 | 59 | 422 | 24 | 0 | 29 | 33 | 140 | 1 | 64 | 43 | 26 | 1,328 | 0 | |
| 4:15 PM | 0 | 14 | 361 | 21 | 1 | 77 | 369 | 24 | 0 | 22 | 24 | 139 | 0 | 43 | 35 | 19 | 1,149 | 0 | |
| 4:30 PM | 0 | 9 | 439 | 22 | 0 | 89 | 367 | 25 | 0 | 36 | 18 | 162 | 0 | 56 | 29 | 29 | 1,281 | 0 | |
| 4:45 PM | 0 | 6 | 391 | 14 | 1 | 74 | 368 | 18 | 0 | 21 | 17 | 117 | 0 | 38 | 43 | 22 | 1,130 | 4,888 | |
| 5:00 PM | 1 | 3 | 388 | 15 | 0 | 96 | 342 | 15 | 0 | 38 | 27 | 202 | 0 | 40 | 28 | 24 | 1,219 | 4,779 | |
| 5:15 PM | 1 | 12 | 422 | 25 | 0 | 95 | 390 | 22 | 0 | 29 | 13 | 145 | 0 | 47 | 24 | 19 | 1,244 | 4,874 | |
| 5:30 PM | 1 | 13 | 408 | 17 | 0 | 87 | 396 | 23 | 0 | 26 | 21 | 104 | 0 | 41 | 38 | 21 | 1,196 | 4,789 | |
| 5:45 PM | 1 | 6 | 375 | 13 | 0 | 75 | 369 | 17 | 0 | 22 | 19 | 15 | 0 | 36 | 34 | 20 | 1,002 | 4,661 | |
| Count Total | 5 | 71 | 3,244 | 145 | 2 | 652 | 3,023 | 168 | 0 | 223 | 172 | 1,024 | 1 | 365 | 274 | 180 | 9,549 | 0 | |
| Peak Hour | All | 1 | 37 | 1,651 | 75 | 2 | 299 | 1,526 | 91 | 0 | 108 | 92 | 558 | 1 | 201 | 150 | 96 | 4,888 | 0 |
| | HV | 0 | 0 | 35 | 0 | 0 | 7 | 26 | 1 | 0 | 0 | 0 | 6 | 0 | 2 | 0 | 0 | 77 | 0 |
| | HV% | 0% | 0% | 2% | 0% | 0% | 2% | 2% | 1% | - | 0% | 0% | 1% | 0% | 1% | 0% | 0% | 2% | 0 |

Note: Two-hour count summary volumes include heavy vehicles but exclude bicycles in overall count.

| Interval Start | Heavy Vehicle Totals | | | | | Bicycles | | | | | Pedestrians (Crossing Leg) | | | | |
|----------------|----------------------|----|----|----|-------|----------|----|----|----|-------|----------------------------|------|-------|-------|-------|
| | EB | WB | NB | SB | Total | EB | WB | NB | SB | Total | East | West | North | South | Total |
| 4:00 PM | 15 | 12 | 1 | 2 | 30 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 6 | 7 | 14 |
| 4:15 PM | 5 | 5 | 1 | 0 | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 1 | 4 |
| 4:30 PM | 11 | 8 | 2 | 0 | 21 | 0 | 0 | 1 | 0 | 1 | 1 | 0 | 3 | 3 | 7 |
| 4:45 PM | 4 | 9 | 2 | 0 | 15 | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 2 | 1 | 6 |
| 5:00 PM | 7 | 6 | 1 | 1 | 15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5:15 PM | 3 | 8 | 3 | 2 | 16 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 |
| 5:30 PM | 8 | 5 | 1 | 2 | 16 | 0 | 0 | 1 | 0 | 1 | 1 | 3 | 2 | 0 | 6 |
| 5:45 PM | 1 | 4 | 4 | 1 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 2 | 3 |
| Count Total | 54 | 57 | 15 | 8 | 134 | 0 | 0 | 2 | 0 | 2 | 4 | 9 | 14 | 14 | 41 |
| Peak Hour | 35 | 34 | 6 | 2 | 77 | 0 | 0 | 1 | 0 | 1 | 3 | 4 | 12 | 12 | 31 |

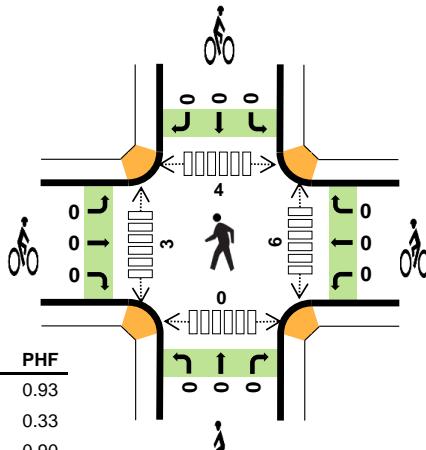
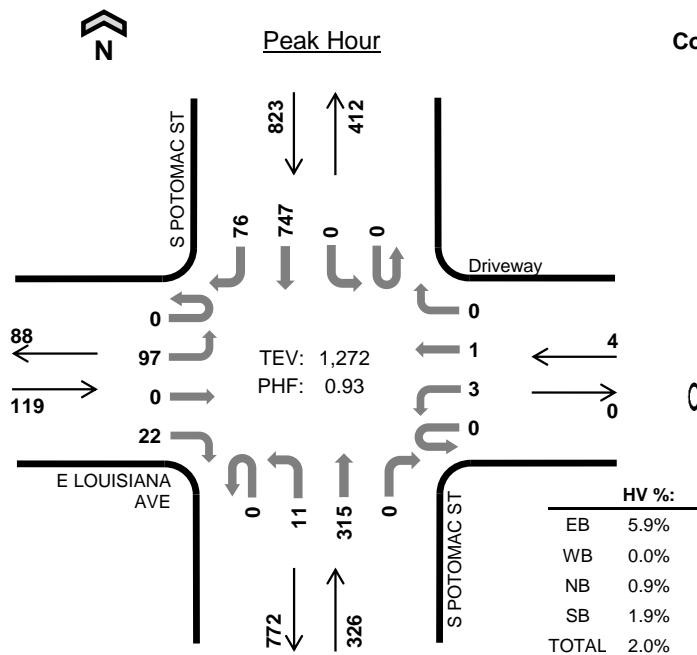
| Two-Hour Count Summaries - Heavy Vehicles | | | | | | | | | | | | | | | | | | |
|---|---------------|----|----|----|---------------|----|----|----|--------------|----|----|----|--------------|----|----|----|--------------|------------------|
| Interval Start | E MISSISSIPPI | | | | E MISSISSIPPI | | | | S POTOMAC ST | | | | S POTOMAC ST | | | | 15-min Total | Rolling One Hour |
| | Eastbound | | | | Westbound | | | | Northbound | | | | Southbound | | | | | |
| | UT | LT | TH | RT | UT | LT | TH | RT | UT | LT | TH | RT | UT | LT | TH | RT | | |
| 4:00 PM | 0 | 0 | 15 | 0 | 0 | 2 | 9 | 1 | 0 | 0 | 0 | 1 | 0 | 2 | 0 | 0 | 30 | 0 |
| 4:15 PM | 0 | 0 | 5 | 0 | 0 | 2 | 3 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 11 | 0 |
| 4:30 PM | 0 | 0 | 11 | 0 | 0 | 2 | 6 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 21 | 0 |
| 4:45 PM | 0 | 0 | 4 | 0 | 0 | 1 | 8 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 15 | 77 |
| 5:00 PM | 0 | 0 | 7 | 0 | 0 | 3 | 3 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 15 | 62 |
| 5:15 PM | 0 | 0 | 3 | 0 | 0 | 3 | 5 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 2 | 0 | 16 | 67 |
| 5:30 PM | 0 | 0 | 8 | 0 | 0 | 2 | 3 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 1 | 0 | 16 | 62 |
| 5:45 PM | 0 | 0 | 1 | 0 | 0 | 1 | 3 | 0 | 0 | 0 | 0 | 4 | 0 | 1 | 0 | 0 | 10 | 57 |
| Count Total | 0 | 0 | 54 | 0 | 0 | 16 | 40 | 1 | 0 | 1 | 0 | 14 | 0 | 5 | 3 | 0 | 134 | 0 |
| Peak Hour | 0 | 0 | 35 | 0 | 0 | 7 | 26 | 1 | 0 | 0 | 0 | 6 | 0 | 2 | 0 | 0 | 77 | 0 |
| Two-Hour Count Summaries - Bikes | | | | | | | | | | | | | | | | | | |
| Interval Start | E MISSISSIPPI | | | | E MISSISSIPPI | | | | S POTOMAC ST | | | | S POTOMAC ST | | | | 15-min Total | Rolling One Hour |
| | Eastbound | | | | Westbound | | | | Northbound | | | | Southbound | | | | | |
| | LT | TH | RT | | LT | TH | RT | | LT | TH | RT | | LT | TH | RT | | | |
| 4:00 PM | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 |
| 4:15 PM | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 |
| 4:30 PM | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 1 | 0 | | 0 | 0 | 0 | | 1 | 0 |
| 4:45 PM | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 1 |
| 5:00 PM | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 1 |
| 5:15 PM | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 1 |
| 5:30 PM | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 1 | 0 | | 0 | 0 | 0 | | 1 | 1 |
| 5:45 PM | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 1 |
| Count Total | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 2 | 0 | | 0 | 0 | 0 | | 2 | 0 |
| Peak Hour | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 1 | 0 | | 0 | 0 | 0 | | 1 | 0 |
| Note: U-Turn volumes for bikes are included in Left-Turn, if any. | | | | | | | | | | | | | | | | | | |

S POTOMAC ST E LOUISIANA AVE



Date: 04/27/2022

Count Period: 7:00 AM to 9:00 AM
 Peak Hour: 7:30 AM to 8:30 AM



Two-Hour Count Summaries

| Interval Start | E LOUISIANA AVE | | | | Driveway | | | | S POTOMAC ST | | | | S POTOMAC ST | | | | 15-min Total | Rolling One Hour | |
|--------------------|-----------------|------------|-----------|-----------|------------|----------|------------|----------|--------------|-----------|------------|------------|--------------|----------|--------------|------------|--------------|------------------|----------|
| | Eastbound | | Westbound | | Northbound | | Southbound | | | | | | | | | | | | |
| | UT | LT | TH | RT | UT | LT | TH | RT | UT | LT | TH | RT | UT | LT | TH | RT | | | |
| 7:00 AM | 0 | 26 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 43 | 0 | 0 | 0 | 106 | 16 | 193 | 0 | |
| 7:15 AM | 0 | 38 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 3 | 71 | 1 | 0 | 1 | 139 | 18 | 272 | 0 | |
| 7:30 AM | 0 | 30 | 0 | 2 | 0 | 1 | 0 | 0 | 0 | 2 | 89 | 0 | 0 | 0 | 151 | 11 | 286 | 0 | |
| 7:45 AM | 0 | 27 | 0 | 3 | 0 | 2 | 1 | 0 | 0 | 3 | 73 | 0 | 0 | 0 | 207 | 14 | 330 | 1,081 | |
| 8:00 AM | 0 | 21 | 0 | 9 | 0 | 0 | 0 | 0 | 0 | 5 | 68 | 0 | 0 | 0 | 215 | 25 | 343 | 1,231 | |
| 8:15 AM | 0 | 19 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 1 | 85 | 0 | 0 | 0 | 174 | 26 | 313 | 1,272 | |
| 8:30 AM | 0 | 17 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 3 | 83 | 0 | 0 | 2 | 154 | 8 | 268 | 1,254 | |
| 8:45 AM | 0 | 20 | 0 | 3 | 0 | 0 | 0 | 1 | 0 | 2 | 94 | 0 | 0 | 0 | 149 | 8 | 277 | 1,201 | |
| Count Total | 0 | 198 | 0 | 29 | 0 | 3 | 1 | 1 | 0 | 19 | 606 | 1 | 0 | 3 | 1,295 | 126 | 2,282 | 0 | |
| Peak Hour | All | 0 | 97 | 0 | 22 | 0 | 3 | 1 | 0 | 0 | 11 | 315 | 0 | 0 | 0 | 747 | 76 | 1,272 | 0 |
| | HV | 0 | 1 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 9 | 7 | 26 | 0 |
| | HV% | - | 1% | - | 27% | - | 0% | 0% | - | - | 0% | 1% | - | - | - | 1% | 9% | 2% | 0 |

Note: Two-hour count summary volumes include heavy vehicles but exclude bicycles in overall count.

| Interval Start | Heavy Vehicle Totals | | | | Bicycles | | | | Pedestrians (Crossing Leg) | | | | | | | |
|--------------------|----------------------|----------|-----------|-----------|-----------|----------|----------|----------|----------------------------|----------|-----------|----------|----------|----------|-----------|--|
| | EB | WB | NB | SB | Total | EB | WB | NB | SB | Total | East | West | North | South | Total | |
| 7:00 AM | 0 | 0 | 2 | 6 | 8 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 2 | |
| 7:15 AM | 1 | 0 | 2 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 1 | 0 | 4 | |
| 7:30 AM | 1 | 0 | 2 | 3 | 6 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 2 | |
| 7:45 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 2 | |
| 8:00 AM | 3 | 0 | 1 | 9 | 13 | 0 | 0 | 0 | 0 | 0 | 2 | 3 | 2 | 0 | 7 | |
| 8:15 AM | 3 | 0 | 0 | 4 | 7 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 2 | |
| 8:30 AM | 1 | 0 | 4 | 5 | 10 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 2 | 5 | |
| 8:45 AM | 1 | 1 | 3 | 2 | 7 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 2 | |
| Count Total | 10 | 1 | 14 | 29 | 54 | 0 | 0 | 0 | 0 | 0 | 10 | 7 | 7 | 2 | 26 | |
| Peak Hour | 7 | 0 | 3 | 16 | 26 | 0 | 0 | 0 | 0 | 0 | 6 | 3 | 4 | 0 | 13 | |

| Two-Hour Count Summaries - Heavy Vehicles | | | | | | | | | | | | | | | | | | |
|---|-----------------|----|----|----|-----------|----|----|----|--------------|----|----|----|--------------|----|----|----|--------------|------------------|
| Interval Start | E LOUISIANA AVE | | | | Driveway | | | | S POTOMAC ST | | | | S POTOMAC ST | | | | 15-min Total | Rolling One Hour |
| | Eastbound | | | | Westbound | | | | Northbound | | | | Southbound | | | | | |
| | UT | LT | TH | RT | UT | LT | TH | RT | UT | LT | TH | RT | UT | LT | TH | RT | | |
| 7:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 3 | 3 | 8 | 0 |
| 7:15 AM | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 3 | 0 |
| 7:30 AM | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 3 | 0 | 6 | 0 |
| 7:45 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 17 |
| 8:00 AM | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 5 | 4 | 13 | 22 |
| 8:15 AM | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 3 | 7 | 26 | |
| 8:30 AM | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 1 | 4 | 0 | 10 | 30 |
| 8:45 AM | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 3 | 0 | 0 | 0 | 1 | 1 | 7 | 37 |
| Count Total | 0 | 4 | 0 | 6 | 0 | 0 | 0 | 1 | 0 | 1 | 13 | 0 | 0 | 1 | 17 | 11 | 54 | 0 |
| Peak Hour | 0 | 1 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 9 | 7 | 26 | 0 |
| Two-Hour Count Summaries - Bikes | | | | | | | | | | | | | | | | | | |
| Interval Start | E LOUISIANA AVE | | | | Driveway | | | | S POTOMAC ST | | | | S POTOMAC ST | | | | 15-min Total | Rolling One Hour |
| | Eastbound | | | | Westbound | | | | Northbound | | | | Southbound | | | | | |
| | LT | TH | RT | | LT | TH | RT | | LT | TH | RT | | LT | TH | RT | | | |
| 7:00 AM | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 |
| 7:15 AM | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 |
| 7:30 AM | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 |
| 7:45 AM | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 |
| 8:00 AM | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 |
| 8:15 AM | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 |
| 8:30 AM | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 |
| 8:45 AM | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 |
| Count Total | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 |
| Peak Hour | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 |
| Note: U-Turn volumes for bikes are included in Left-Turn, if any. | | | | | | | | | | | | | | | | | | |

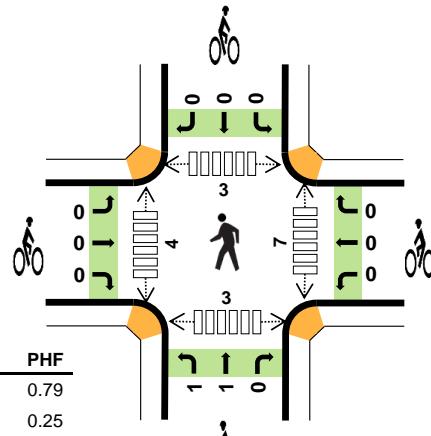
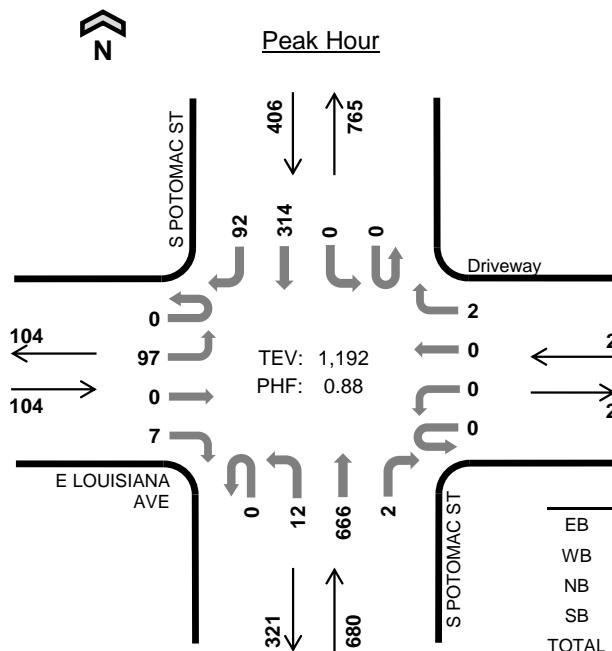
S POTOMAC ST E LOUISIANA AVE



Date: 04/27/2022

Count Period: 4:00 PM to 6:00 PM

Peak Hour: 4:15 PM to 5:15 PM



Two-Hour Count Summaries

| Interval Start | E LOUISIANA AVE | | | | Driveway | | | | S POTOMAC ST | | | | S POTOMAC ST | | | | 15-min Total | Rolling One Hour | |
|----------------|-----------------|-----|-----------|----|------------|----|------------|----|--------------|----|-------|-----|--------------|----|-----|-----|--------------|------------------|---|
| | Eastbound | | Westbound | | Northbound | | Southbound | | | | | | | | | | | | |
| | UT | LT | TH | RT | UT | LT | TH | RT | UT | LT | TH | RT | UT | LT | TH | RT | | | |
| 4:00 PM | 0 | 31 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 4 | 159 | 0 | 0 | 0 | 86 | 12 | 293 | 0 | |
| 4:15 PM | 0 | 20 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 6 | 145 | 1 | 0 | 0 | 78 | 21 | 273 | 0 | |
| 4:30 PM | 0 | 30 | 0 | 3 | 0 | 0 | 0 | 2 | 0 | 2 | 171 | 1 | 0 | 0 | 68 | 32 | 309 | 0 | |
| 4:45 PM | 0 | 17 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 3 | 145 | 0 | 0 | 0 | 89 | 18 | 273 | 1,148 | |
| 5:00 PM | 0 | 30 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 205 | 0 | 0 | 0 | 79 | 21 | 337 | 1,192 | |
| 5:15 PM | 0 | 25 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 4 | 139 | 1 | 0 | 1 | 76 | 17 | 265 | 1,184 | |
| 5:30 PM | 0 | 24 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 3 | 106 | 0 | 0 | 1 | 91 | 24 | 250 | 1,125 | |
| 5:45 PM | 0 | 23 | 0 | 3 | 0 | 0 | 0 | 1 | 0 | 2 | 106 | 1 | 0 | 0 | 63 | 25 | 224 | 1,076 | |
| Count Total | 0 | 200 | 0 | 12 | 0 | 1 | 0 | 4 | 0 | 25 | 1,176 | 4 | 0 | 2 | 630 | 170 | 2,224 | 0 | |
| Peak Hour | All | 0 | 97 | 0 | 7 | 0 | 0 | 0 | 2 | 0 | 12 | 666 | 2 | 0 | 0 | 314 | 92 | 1,192 | 0 |
| | HV | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 11 | 0 | 0 | 0 | 7 | 1 | 21 | 0 |
| | HV% | - | 2% | - | 0% | - | - | - | 0% | - | 0% | 2% | 0% | - | - | 2% | 1% | 2% | 0 |

Note: Two-hour count summary volumes include heavy vehicles but exclude bicycles in overall count.

| Interval Start | Heavy Vehicle Totals | | | | Bicycles | | | | Pedestrians (Crossing Leg) | | | | | Total | Total |
|----------------|----------------------|----|----|----|----------|----|----|----|----------------------------|-------|------|------|-------|-------|-------|
| | EB | WB | NB | SB | Total | EB | WB | NB | SB | Total | East | West | North | South | |
| 4:00 PM | 0 | 0 | 1 | 2 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 |
| 4:15 PM | 0 | 0 | 3 | 1 | 4 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 2 |
| 4:30 PM | 0 | 0 | 3 | 2 | 5 | 0 | 0 | 1 | 0 | 1 | 2 | 1 | 0 | 1 | 4 |
| 4:45 PM | 2 | 0 | 1 | 2 | 5 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 1 | 3 |
| 5:00 PM | 0 | 0 | 4 | 3 | 7 | 0 | 0 | 1 | 0 | 1 | 3 | 1 | 3 | 1 | 8 |
| 5:15 PM | 0 | 0 | 3 | 5 | 8 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 2 | 0 | 4 |
| 5:30 PM | 0 | 0 | 3 | 4 | 7 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 4 |
| 5:45 PM | 0 | 0 | 3 | 2 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 |
| Count Total | 2 | 0 | 21 | 21 | 44 | 0 | 0 | 2 | 0 | 2 | 9 | 7 | 6 | 5 | 27 |
| Peak Hour | 2 | 0 | 11 | 8 | 21 | 0 | 0 | 2 | 0 | 2 | 7 | 4 | 3 | 3 | 17 |

| Two-Hour Count Summaries - Heavy Vehicles | | | | | | | | | | | | | | | | | | |
|---|-----------------|----|----|----|-----------|----|----|--------------|----|----|----|--------------|----|----|----|--------------|------------------|----|
| Interval Start | E LOUISIANA AVE | | | | Driveway | | | S POTOMAC ST | | | | S POTOMAC ST | | | | 15-min Total | Rolling One Hour | |
| | Eastbound | | | | Westbound | | | Northbound | | | | Southbound | | | | | | |
| | UT | LT | TH | RT | UT | LT | TH | RT | UT | LT | TH | RT | UT | LT | TH | RT | | |
| 4:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 2 | 0 | 3 | 0 |
| 4:15 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 1 | 0 | 4 | 0 |
| 4:30 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 1 | 1 | 5 | 0 |
| 4:45 PM | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 2 | 0 | 5 | 17 |
| 5:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 0 | 3 | 0 | 7 | 21 |
| 5:15 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 4 | 1 | 8 | 25 |
| 5:30 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 0 | 0 | 0 | 4 | 0 | 7 | 27 |
| 5:45 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 1 | 1 | 5 | 27 |
| Count Total | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 20 | 0 | 0 | 0 | 18 | 3 | 44 | 0 |
| Peak Hour | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 11 | 0 | 0 | 0 | 7 | 1 | 21 | 0 |
| Two-Hour Count Summaries - Bikes | | | | | | | | | | | | | | | | | | |
| Interval Start | E LOUISIANA AVE | | | | Driveway | | | S POTOMAC ST | | | | S POTOMAC ST | | | | 15-min Total | Rolling One Hour | |
| | Eastbound | | | | Westbound | | | Northbound | | | | Southbound | | | | | | |
| | LT | TH | RT | | LT | TH | RT | LT | TH | RT | | LT | TH | RT | | | | |
| 4:00 PM | 0 | 0 | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 4:15 PM | 0 | 0 | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 4:30 PM | 0 | 0 | 0 | | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | |
| 4:45 PM | 0 | 0 | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | |
| 5:00 PM | 0 | 0 | 0 | | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | |
| 5:15 PM | 0 | 0 | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | |
| 5:30 PM | 0 | 0 | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | |
| 5:45 PM | 0 | 0 | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | |
| Count Total | 0 | 0 | 0 | | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | |
| Peak Hour | 0 | 0 | 0 | | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | |
| Note: U-Turn volumes for bikes are included in Left-Turn, if any. | | | | | | | | | | | | | | | | | | |

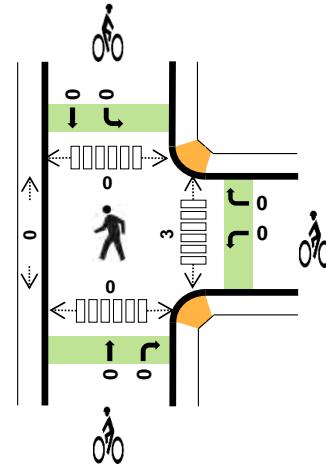
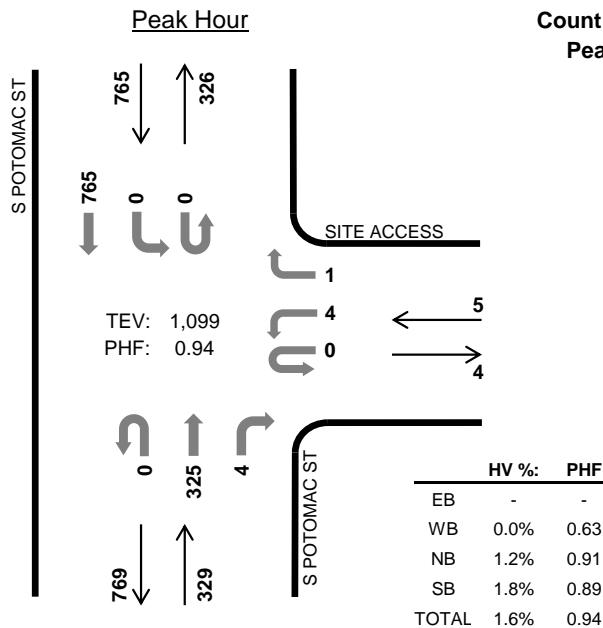
S POTOMAC ST SITE ACCESS



Date: 04/27/2022

Count Period: 7:00 AM to 9:00 AM

Peak Hour: 7:30 AM to 8:30 AM



Two-Hour Count Summaries

| Interval Start | N/A | | | | SITE ACCESS | | | | S POTOMAC ST | | | | S POTOMAC ST | | | | 15-min Total | Rolling One Hour | |
|----------------|-----------|----|----|----|-------------|----|----|----|--------------|----|-----|-----|--------------|----|-------|-----|--------------|------------------|---|
| | Eastbound | | | | Westbound | | | | Northbound | | | | Southbound | | | | | | |
| UT | LT | TH | RT | UT | LT | TH | RT | UT | LT | TH | RT | UT | LT | TH | RT | | | | |
| 7:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 47 | 0 | 0 | 0 | 113 | 0 | 160 | 0 | |
| 7:15 AM | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 72 | 1 | 0 | 1 | 139 | 0 | 214 | 0 | |
| 7:30 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 89 | 0 | 0 | 0 | 153 | 0 | 243 | 0 | |
| 7:45 AM | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 76 | 2 | 0 | 0 | 213 | 0 | 292 | 909 | |
| 8:00 AM | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 72 | 0 | 0 | 0 | 214 | 0 | 287 | 1,036 | |
| 8:15 AM | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 88 | 2 | 0 | 0 | 185 | 0 | 277 | 1,099 | |
| 8:30 AM | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 86 | 1 | 0 | 0 | 152 | 0 | 240 | 1,096 | |
| 8:45 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 95 | 0 | 0 | 0 | 155 | 0 | 250 | 1,054 | |
| Count Total | 0 | 0 | 0 | 0 | 0 | 6 | 0 | 1 | 0 | 0 | 625 | 6 | 0 | 1 | 1,324 | 0 | 1,963 | 0 | |
| Peak Hour | All | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 1 | 0 | 0 | 325 | 4 | 0 | 0 | 765 | 0 | 1,099 | 0 |
| | HV | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 0 | 14 | 0 | 18 | 0 |
| | HV% | - | - | - | - | - | 0% | - | 0% | - | - | 1% | 0% | - | - | 2% | - | 2% | 0 |

Note: Two-hour count summary volumes include heavy vehicles but exclude bicycles in overall count.

| Interval Start | Heavy Vehicle Totals | | | | | Bicycles | | | | | Pedestrians (Crossing Leg) | | | | |
|----------------|----------------------|----|----|----|-------|----------|----|----|----|-------|----------------------------|------|-------|-------|-------|
| | EB | WB | NB | SB | Total | EB | WB | NB | SB | Total | East | West | North | South | Total |
| 7:00 AM | 0 | 0 | 2 | 3 | 5 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 2 |
| 7:15 AM | 0 | 0 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 3 |
| 7:30 AM | 0 | 0 | 2 | 3 | 5 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 |
| 7:45 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 |
| 8:00 AM | 0 | 0 | 1 | 6 | 7 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 |
| 8:15 AM | 0 | 0 | 1 | 5 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8:30 AM | 0 | 0 | 4 | 6 | 10 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 0 | 4 |
| 8:45 AM | 0 | 0 | 3 | 1 | 4 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 |
| Count Total | 0 | 0 | 15 | 24 | 39 | 0 | 0 | 0 | 0 | 0 | 9 | 4 | 0 | 0 | 13 |
| Peak Hr | 0 | 0 | 4 | 14 | 18 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 3 |

| Two-Hour Count Summaries - Heavy Vehicles | | | | | | | | | | | | | | | | | | | | |
|---|-----------|----|----|----|-------------|----|----|----|--------------|----|----|----|--------------|----|----|----|--------------|------------------|--|--|
| Interval Start | N/A | | | | SITE ACCESS | | | | S POTOMAC ST | | | | S POTOMAC ST | | | | 15-min Total | Rolling One Hour | | |
| | Eastbound | | | | Westbound | | | | Northbound | | | | Southbound | | | | | | | |
| | UT | LT | TH | RT | UT | LT | TH | RT | UT | LT | TH | RT | UT | LT | TH | RT | | | | |
| 7:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 3 | 0 | 5 | 0 | | |
| 7:15 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | | |
| 7:30 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 3 | 0 | 5 | 0 | | |
| 7:45 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 12 | | |
| 8:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 6 | 0 | 7 | 14 | | |
| 8:15 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 5 | 0 | 6 | 18 | | |
| 8:30 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 0 | 6 | 0 | 10 | 23 | | |
| 8:45 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 1 | 0 | 4 | 27 | | |
| Count Total | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 15 | 0 | 0 | 0 | 24 | 0 | 39 | 0 | | |
| Peak Hour | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 0 | 14 | 0 | 18 | 0 | | |

| Two-Hour Count Summaries - Bikes | | | | | | | | | | | | | | | | | | | | |
|----------------------------------|-----------|----|----|--|-------------|----|----|--|--------------|----|----|--|--------------|----|----|---|--------------|------------------|--|--|
| Interval Start | N/A | | | | SITE ACCESS | | | | S POTOMAC ST | | | | S POTOMAC ST | | | | 15-min Total | Rolling One Hour | | |
| | Eastbound | | | | Westbound | | | | Northbound | | | | Southbound | | | | | | | |
| | LT | TH | RT | | LT | TH | RT | | LT | TH | RT | | LT | TH | RT | | | | | |
| 7:00 AM | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | | |
| 7:15 AM | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | | |
| 7:30 AM | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | | |
| 7:45 AM | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | | |
| 8:00 AM | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | | |
| 8:15 AM | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | | |
| 8:30 AM | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | | |
| 8:45 AM | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | | |
| Count Total | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | | |
| Peak Hour | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | | |

Note: U-Turn volumes for bikes are included in Left-Turn, if any.

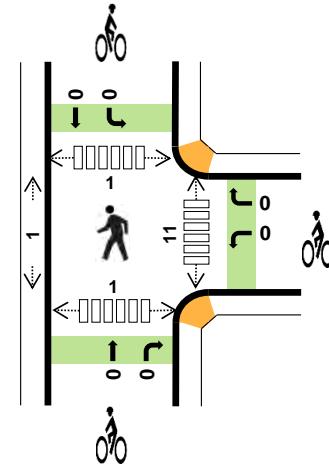
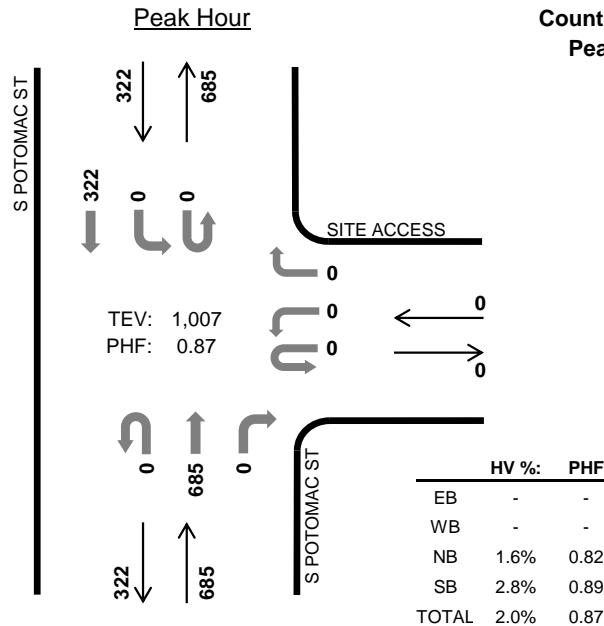
S POTOMAC ST SITE ACCESS



Date: 04/27/2022

Count Period: 4:00 PM to 6:00 PM

Peak Hour: 4:15 PM to 5:15 PM



Two-Hour Count Summaries

| Interval Start | N/A | | | | SITE ACCESS | | | | S POTOMAC ST | | | | S POTOMAC ST | | | | 15-min Total | Rolling One Hour | | |
|----------------|-----------|----------|----------|----------|-------------|----------|----------|----------|--------------|----------|------------|----------|--------------|----------|-----------|----------|--------------|------------------|--|--|
| | Eastbound | | | | Westbound | | | | Northbound | | | | Southbound | | | | | | | |
| | UT | LT | TH | RT | UT | LT | TH | RT | UT | LT | TH | RT | UT | LT | TH | RT | | | | |
| 4:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 161 | 0 | 0 | 0 | 88 | 0 | 250 | 0 | | |
| 4:15 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 154 | 0 | 0 | 0 | 80 | 0 | 234 | 0 | | |
| 4:30 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 173 | 0 | 0 | 0 | 71 | 0 | 244 | 0 | | |
| 4:45 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 148 | 0 | 0 | 0 | 90 | 0 | 238 | 966 | | |
| 5:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 210 | 0 | 0 | 0 | 81 | 0 | 291 | 1,007 | | |
| 5:15 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 138 | 0 | 0 | 0 | 77 | 0 | 215 | 988 | | |
| 5:30 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 110 | 0 | 0 | 0 | 92 | 0 | 202 | 946 | | |
| 5:45 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 111 | 0 | 0 | 0 | 66 | 0 | 177 | 885 | | |
| Count Total | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1,205 | 0 | 0 | 0 | 645 | 0 | 1,851 | 0 | | |
| Peak Hour | All | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 685 | 0 | 0 | 0 | 322 | 0 | 1,007 | 0 | | |
| | HV | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 11 | 0 | 0 | 0 | 9 | 0 | 20 | 0 | | |
| | HV% | - | - | - | - | - | - | - | - | - | 2% | - | - | - | 3% | - | 2% | 0 | | |

Note: Two-hour count summary volumes include heavy vehicles but exclude bicycles in overall count.

| Interval Start | Heavy Vehicle Totals | | | | | Bicycles | | | | | Pedestrians (Crossing Leg) | | | | | |
|----------------|----------------------|----------|-----------|----------|-----------|----------|----------|----------|----------|----------|----------------------------|----------|----------|----------|-----------|----------|
| | EB | WB | NB | SB | Total | EB | WB | NB | SB | Total | East | West | North | South | Total | |
| 4:00 PM | 0 | 0 | 1 | 2 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 4:15 PM | 0 | 0 | 3 | 2 | 5 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 2 |
| 4:30 PM | 0 | 0 | 3 | 1 | 4 | 0 | 0 | 0 | 0 | 0 | 4 | 1 | 1 | 0 | 6 | |
| 4:45 PM | 0 | 0 | 1 | 3 | 4 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | |
| 5:00 PM | 0 | 0 | 4 | 3 | 7 | 0 | 0 | 0 | 0 | 0 | 5 | 0 | 0 | 0 | 5 | |
| 5:15 PM | 0 | 0 | 2 | 3 | 5 | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 0 | 0 | 3 | |
| 5:30 PM | 0 | 0 | 4 | 4 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | |
| 5:45 PM | 0 | 0 | 3 | 2 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Count Total | 0 | 0 | 21 | 20 | 41 | 0 | 0 | 0 | 0 | 0 | 13 | 3 | 1 | 1 | 18 | |
| Peak Hr | 0 | 0 | 11 | 9 | 20 | 0 | 0 | 0 | 0 | 0 | 11 | 1 | 1 | 1 | 14 | |

| Two-Hour Count Summaries - Heavy Vehicles | | | | | | | | | | | | | | | | | | | | |
|---|-----------|----|----|----|-------------|----|----|----|--------------|----|----|----|--------------|----|----|----|--------------|------------------|--|--|
| Interval Start | N/A | | | | SITE ACCESS | | | | S POTOMAC ST | | | | S POTOMAC ST | | | | 15-min Total | Rolling One Hour | | |
| | Eastbound | | | | Westbound | | | | Northbound | | | | Southbound | | | | | | | |
| | UT | LT | TH | RT | UT | LT | TH | RT | UT | LT | TH | RT | UT | LT | TH | RT | | | | |
| 4:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 2 | 0 | 3 | 0 | | |
| 4:15 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 2 | 0 | 5 | 0 | | |
| 4:30 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 1 | 0 | 4 | 0 | | |
| 4:45 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 3 | 0 | 4 | 16 | | |
| 5:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 0 | 3 | 0 | 7 | 20 | | |
| 5:15 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 3 | 0 | 5 | 20 | | |
| 5:30 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 0 | 4 | 0 | 8 | 24 | | |
| 5:45 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 2 | 0 | 5 | 25 | | |
| Count Total | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 21 | 0 | 0 | 0 | 20 | 0 | 41 | 0 | | |
| Peak Hour | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 11 | 0 | 0 | 0 | 9 | 0 | 20 | 0 | | |

| Two-Hour Count Summaries - Bikes | | | | | | | | | | | | | | | | | | | | |
|----------------------------------|-----------|----|----|--|-------------|----|----|--|--------------|----|----|--|--------------|----|----|---|--------------|------------------|--|--|
| Interval Start | N/A | | | | SITE ACCESS | | | | S POTOMAC ST | | | | S POTOMAC ST | | | | 15-min Total | Rolling One Hour | | |
| | Eastbound | | | | Westbound | | | | Northbound | | | | Southbound | | | | | | | |
| | LT | TH | RT | | LT | TH | RT | | LT | TH | RT | | LT | TH | RT | | | | | |
| 4:00 PM | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | | |
| 4:15 PM | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | | |
| 4:30 PM | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | | |
| 4:45 PM | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | | |
| 5:00 PM | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | | |
| 5:15 PM | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | | |
| 5:30 PM | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | | |
| 5:45 PM | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | | |
| Count Total | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | | |
| Peak Hour | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | | |

Note: U-Turn volumes for bikes are included in Left-Turn, if any.

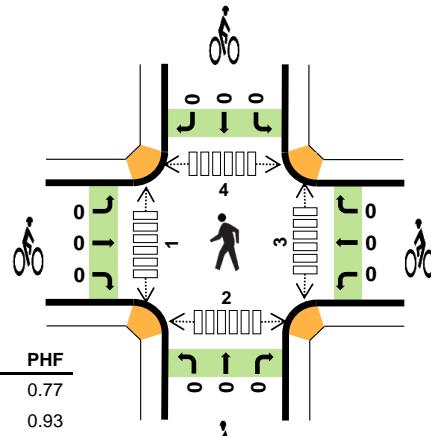
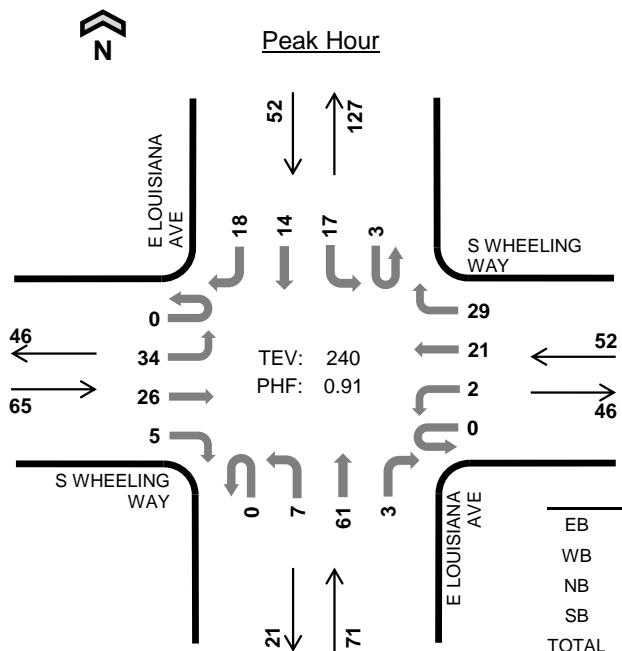
E LOUISIANA AVE S WHEELING WAY



Date: 04/27/2022

Count Period: 7:00 AM to 9:00 AM

Peak Hour: 7:15 AM to 8:15 AM



Two-Hour Count Summaries

| Interval Start | S WHEELING WAY | | | | S WHEELING WAY | | | | E LOUISIANA AVE | | | | E LOUISIANA AVE | | | | 15-min Total | Rolling One Hour | |
|----------------|----------------|----|-----------|----|----------------|----|------------|-----|-----------------|----|-----|----|-----------------|------|----|----|--------------|------------------|---|
| | Eastbound | | Westbound | | Northbound | | Southbound | | UT | LT | TH | RT | UT | LT | TH | RT | | | |
| | UT | LT | TH | RT | UT | LT | TH | RT | UT | LT | TH | RT | UT | LT | TH | RT | | | |
| 7:00 AM | 0 | 6 | 5 | 1 | 0 | 1 | 2 | 7 | 0 | 2 | 15 | 1 | 0 | 3 | 5 | 0 | 48 | 0 | |
| 7:15 AM | 0 | 14 | 6 | 1 | 0 | 1 | 4 | 8 | 0 | 4 | 19 | 2 | 0 | 2 | 2 | 3 | 66 | 0 | |
| 7:30 AM | 0 | 4 | 7 | 2 | 0 | 0 | 5 | 9 | 0 | 0 | 19 | 0 | 0 | 3 | 3 | 5 | 57 | 0 | |
| 7:45 AM | 0 | 8 | 5 | 2 | 0 | 0 | 7 | 6 | 0 | 1 | 12 | 1 | 0 | 4 | 3 | 6 | 55 | 226 | |
| 8:00 AM | 0 | 8 | 8 | 0 | 0 | 1 | 5 | 6 | 0 | 2 | 11 | 0 | 3 | 8 | 6 | 4 | 62 | 240 | |
| 8:15 AM | 0 | 6 | 7 | 1 | 0 | 0 | 6 | 5 | 0 | 1 | 11 | 0 | 0 | 6 | 6 | 4 | 53 | 227 | |
| 8:30 AM | 0 | 4 | 6 | 2 | 0 | 1 | 2 | 4 | 0 | 4 | 9 | 2 | 0 | 3 | 3 | 3 | 43 | 213 | |
| 8:45 AM | 0 | 4 | 2 | 0 | 0 | 0 | 3 | 4 | 0 | 0 | 16 | 3 | 0 | 3 | 5 | 1 | 41 | 199 | |
| Count Total | 0 | 54 | 46 | 9 | 0 | 4 | 34 | 49 | 0 | 14 | 112 | 9 | 3 | 32 | 33 | 26 | 425 | 0 | |
| Peak Hour | All | 0 | 34 | 26 | 5 | 0 | 2 | 21 | 29 | 0 | 7 | 61 | 3 | 3 | 17 | 14 | 18 | 240 | 0 |
| | HV | 0 | 1 | 2 | 1 | 0 | 0 | 3 | 1 | 0 | 0 | 0 | 3 | 0 | 1 | 1 | 13 | 0 | |
| | HV% | - | 3% | 8% | 20% | - | 0% | 14% | 3% | - | 0% | 0% | 0% | 100% | 0% | 7% | 6% | 5% | 0 |

Note: Two-hour count summary volumes include heavy vehicles but exclude bicycles in overall count.

| Interval Start | Heavy Vehicle Totals | | | | | Bicycles | | | | | Pedestrians (Crossing Leg) | | | | |
|----------------|----------------------|----|----|----|-------|----------|----|----|----|-------|----------------------------|------|-------|-------|-------|
| | EB | WB | NB | SB | Total | EB | WB | NB | SB | Total | East | West | North | South | Total |
| 7:00 AM | 1 | 1 | 0 | 2 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 |
| 7:15 AM | 2 | 0 | 0 | 2 | 4 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 2 | 2 | 6 |
| 7:30 AM | 1 | 2 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 |
| 7:45 AM | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 2 |
| 8:00 AM | 0 | 2 | 0 | 3 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 |
| 8:15 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 |
| 8:30 AM | 2 | 2 | 0 | 1 | 5 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 |
| 8:45 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Count Total | 7 | 7 | 0 | 8 | 22 | 0 | 0 | 0 | 0 | 0 | 4 | 2 | 5 | 2 | 13 |
| Peak Hour | 4 | 4 | 0 | 5 | 13 | 0 | 0 | 0 | 0 | 0 | 3 | 1 | 4 | 2 | 10 |

| Two-Hour Count Summaries - Heavy Vehicles | | | | | | | | | | | | | | | | | | |
|---|----------------|----|----|----|----------------|----|----|----|-----------------|----|----|----|-----------------|----|----|----|--------------|------------------|
| Interval Start | S WHEELING WAY | | | | S WHEELING WAY | | | | E LOUISIANA AVE | | | | E LOUISIANA AVE | | | | 15-min Total | Rolling One Hour |
| | Eastbound | | | | Westbound | | | | Northbound | | | | Southbound | | | | | |
| UT | LT | TH | RT | UT | LT | TH | RT | UT | LT | TH | RT | UT | LT | TH | RT | | | |
| 7:00 AM | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 4 | 0 | |
| 7:15 AM | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 4 | 0 | |
| 7:30 AM | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | |
| 7:45 AM | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 12 | |
| 8:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 5 | 13 | |
| 8:15 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9 | |
| 8:30 AM | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 5 | 11 | |
| 8:45 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | |
| Count Total | 0 | 2 | 4 | 1 | 0 | 0 | 5 | 2 | 0 | 0 | 0 | 0 | 3 | 0 | 3 | 22 | 0 | |
| Peak Hour | 0 | 1 | 2 | 1 | 0 | 0 | 3 | 1 | 0 | 0 | 0 | 3 | 0 | 1 | 1 | 13 | 0 | |
| Two-Hour Count Summaries - Bikes | | | | | | | | | | | | | | | | | | |
| Interval Start | S WHEELING WAY | | | | S WHEELING WAY | | | | E LOUISIANA AVE | | | | E LOUISIANA AVE | | | | 15-min Total | Rolling One Hour |
| | Eastbound | | | | Westbound | | | | Northbound | | | | Southbound | | | | | |
| LT | TH | RT | | LT | TH | RT | | LT | TH | RT | | LT | TH | RT | | | | |
| 7:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 7:15 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 7:30 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 7:45 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 8:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 8:15 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 8:30 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 8:45 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Count Total | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Peak Hour | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Note: U-Turn volumes for bikes are included in Left-Turn, if any. | | | | | | | | | | | | | | | | | | |

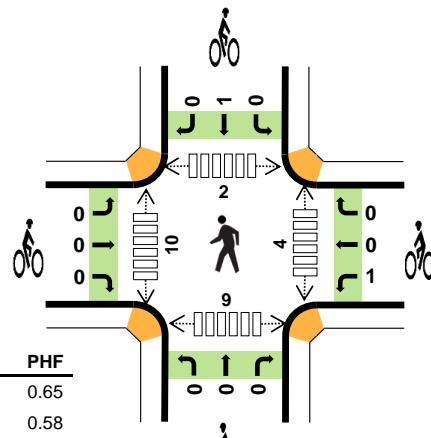
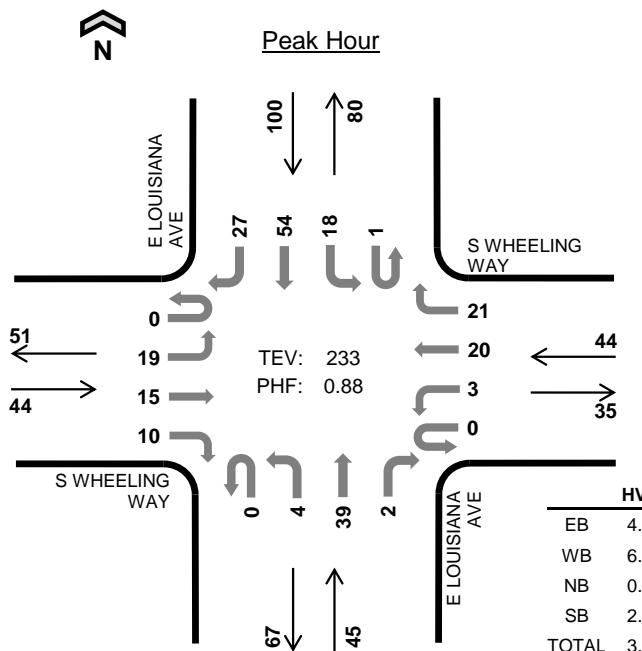
E LOUISIANA AVE S WHEELING WAY



Date: 04/27/2022

Count Period: 4:00 PM to 6:00 PM

Peak Hour: 5:00 PM to 6:00 PM



Two-Hour Count Summaries

| Interval Start | S WHEELING WAY | | | | S WHEELING WAY | | | | E LOUISIANA AVE | | | | E LOUISIANA AVE | | | | 15-min Total | Rolling One Hour | | |
|----------------|----------------|----|----|-----|----------------|----|----|-----|-----------------|----|----|----|-----------------|----|----|----|--------------|------------------|---|--|
| | Eastbound | | | | Westbound | | | | Northbound | | | | Southbound | | | | | | | |
| | UT | LT | TH | RT | UT | LT | TH | RT | UT | LT | TH | RT | UT | LT | TH | RT | | | | |
| 4:00 PM | 0 | 4 | 5 | 1 | 0 | 1 | 7 | 8 | 0 | 1 | 11 | 1 | 0 | 1 | 8 | 7 | 55 | 0 | | |
| 4:15 PM | 0 | 7 | 3 | 2 | 0 | 1 | 3 | 5 | 0 | 1 | 6 | 1 | 0 | 8 | 10 | 4 | 51 | 0 | | |
| 4:30 PM | 0 | 5 | 3 | 4 | 0 | 3 | 5 | 8 | 0 | 0 | 11 | 1 | 0 | 11 | 17 | 8 | 76 | 0 | | |
| 4:45 PM | 0 | 3 | 2 | 1 | 0 | 2 | 3 | 5 | 0 | 2 | 5 | 2 | 0 | 4 | 9 | 7 | 45 | 227 | | |
| 5:00 PM | 0 | 1 | 5 | 1 | 0 | 2 | 8 | 9 | 0 | 1 | 10 | 0 | 0 | 5 | 9 | 8 | 59 | 231 | | |
| 5:15 PM | 0 | 1 | 3 | 1 | 0 | 0 | 7 | 2 | 0 | 1 | 11 | 0 | 0 | 3 | 12 | 6 | 47 | 227 | | |
| 5:30 PM | 0 | 10 | 3 | 4 | 0 | 0 | 5 | 4 | 0 | 0 | 7 | 2 | 0 | 6 | 18 | 7 | 66 | 217 | | |
| 5:45 PM | 0 | 7 | 4 | 4 | 0 | 1 | 0 | 6 | 0 | 2 | 11 | 0 | 1 | 4 | 15 | 6 | 61 | 233 | | |
| Count Total | 0 | 38 | 28 | 18 | 0 | 10 | 38 | 47 | 0 | 8 | 72 | 7 | 1 | 42 | 98 | 53 | 460 | 0 | | |
| Peak Hour | All | 0 | 19 | 15 | 10 | 0 | 3 | 20 | 21 | 0 | 4 | 39 | 2 | 1 | 18 | 54 | 27 | 233 | 0 | |
| | HV | 0 | 0 | 2 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 7 | 0 | | |
| | HV% | - | 0% | 13% | 0% | - | 0% | 15% | 0% | - | 0% | 0% | 0% | 0% | 0% | 4% | 0% | 3% | 0 | |

Note: Two-hour count summary volumes include heavy vehicles but exclude bicycles in overall count.

| Interval Start | Heavy Vehicle Totals | | | | | Bicycles | | | | | Pedestrians (Crossing Leg) | | | | |
|----------------|----------------------|----|----|----|-------|----------|----|----|----|-------|----------------------------|------|-------|-------|-------|
| | EB | WB | NB | SB | Total | EB | WB | NB | SB | Total | East | West | North | South | Total |
| 4:00 PM | 0 | 1 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 3 |
| 4:15 PM | 2 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 1 | 3 |
| 4:30 PM | 2 | 0 | 1 | 1 | 4 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 1 |
| 4:45 PM | 0 | 0 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 |
| 5:00 PM | 1 | 2 | 0 | 0 | 3 | 0 | 0 | 0 | 1 | 1 | 1 | 2 | 1 | 1 | 5 |
| 5:15 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 |
| 5:30 PM | 1 | 1 | 0 | 1 | 3 | 0 | 1 | 0 | 0 | 1 | 1 | 7 | 1 | 6 | 15 |
| 5:45 PM | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 0 | 1 | 4 |
| Count Total | 6 | 4 | 4 | 3 | 17 | 0 | 2 | 0 | 1 | 3 | 5 | 10 | 5 | 13 | 33 |
| Peak Hour | 2 | 3 | 0 | 2 | 7 | 0 | 1 | 0 | 1 | 2 | 4 | 10 | 2 | 9 | 25 |

| Two-Hour Count Summaries - Heavy Vehicles | | | | | | | | | | | | | | | | | | |
|---|----------------|----------|----------|----------|----------------|----------|----------|----------|-----------------|----------|----------|----------|-----------------|----------|----------|----------|--------------|------------------|
| Interval Start | S WHEELING WAY | | | | S WHEELING WAY | | | | E LOUISIANA AVE | | | | E LOUISIANA AVE | | | | 15-min Total | Rolling One Hour |
| | Eastbound | | | | Westbound | | | | Northbound | | | | Southbound | | | | | |
| | UT | LT | TH | RT | UT | LT | TH | RT | UT | LT | TH | RT | UT | LT | TH | RT | | |
| 4:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 2 | 0 |
| 4:15 PM | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 |
| 4:30 PM | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 4 | 0 |
| 4:45 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 2 | 10 |
| 5:00 PM | 0 | 0 | 1 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 11 |
| 5:15 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9 |
| 5:30 PM | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 3 | 8 |
| 5:45 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 7 |
| Count Total | 0 | 2 | 4 | 0 | 0 | 0 | 4 | 0 | 0 | 1 | 2 | 1 | 0 | 0 | 2 | 1 | 17 | 0 |
| Peak Hour | 0 | 0 | 2 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 7 | 0 |
| Two-Hour Count Summaries - Bikes | | | | | | | | | | | | | | | | | | |
| Interval Start | S WHEELING WAY | | | | S WHEELING WAY | | | | E LOUISIANA AVE | | | | E LOUISIANA AVE | | | | 15-min Total | Rolling One Hour |
| | Eastbound | | | | Westbound | | | | Northbound | | | | Southbound | | | | | |
| | LT | TH | RT | | LT | TH | RT | | LT | TH | RT | | LT | TH | RT | | | |
| 4:00 PM | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 |
| 4:15 PM | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 |
| 4:30 PM | 0 | 0 | 0 | | 0 | 1 | 0 | | 0 | 0 | 0 | | 0 | 0 | 0 | | 1 | 0 |
| 4:45 PM | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 1 |
| 5:00 PM | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 1 | 0 | | 1 | 2 |
| 5:15 PM | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 2 |
| 5:30 PM | 0 | 0 | 0 | | 1 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 | 0 | | 1 | 2 |
| 5:45 PM | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 2 |
| Count Total | 0 | 0 | 0 | | 1 | 1 | 0 | | 0 | 0 | 0 | | 0 | 1 | 0 | | 3 | 0 |
| Peak Hour | 0 | 0 | 0 | | 1 | 0 | 0 | | 0 | 0 | 0 | | 0 | 1 | 0 | | 2 | 0 |

Note: U-Turn volumes for bikes are included in Left-Turn, if any.

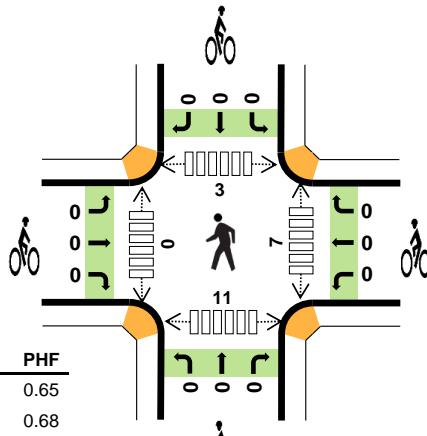
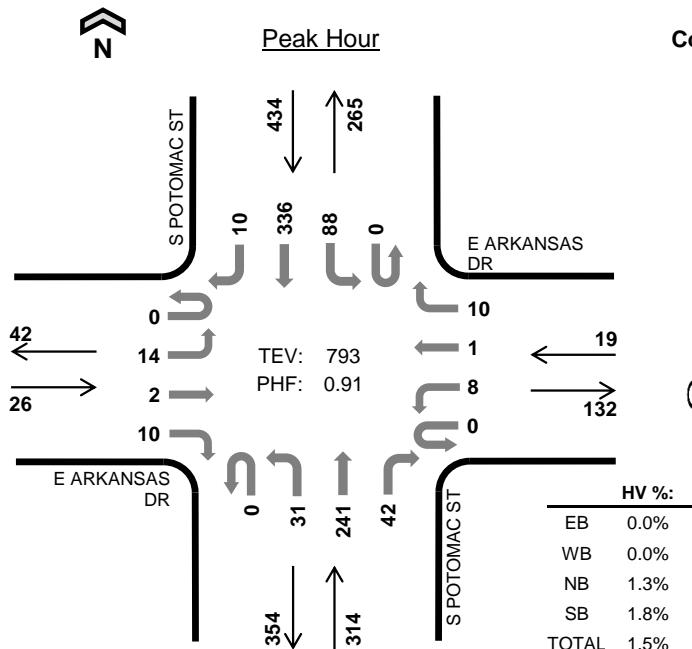
S POTOMAC ST E ARKANSAS DR



Date: 04/27/2022

Count Period: 7:00 AM to 9:00 AM

Peak Hour: 7:45 AM to 8:45 AM



Two-Hour Count Summaries

| Interval Start | E ARKANSAS DR | | | | E ARKANSAS DR | | | | S POTOMAC ST | | | | S POTOMAC ST | | | | 15-min Total | Rolling One Hour | |
|----------------|---------------|----------|-----------|----------|---------------|----------|------------|----------|--------------|----------|-----------|-----------|--------------|-----------|-----------|----------|--------------|------------------|---|
| | Eastbound | | Westbound | | Northbound | | Southbound | | | | | | | | | | | | |
| | UT | LT | TH | RT | UT | LT | TH | RT | UT | LT | TH | RT | UT | LT | TH | RT | | | |
| 7:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 42 | 6 | 0 | 13 | 39 | 4 | 106 | 0 | |
| 7:15 AM | 0 | 2 | 0 | 3 | 0 | 0 | 0 | 3 | 0 | 5 | 60 | 5 | 0 | 17 | 52 | 6 | 153 | 0 | |
| 7:30 AM | 0 | 1 | 0 | 4 | 0 | 0 | 0 | 1 | 0 | 3 | 56 | 6 | 0 | 9 | 52 | 1 | 133 | 0 | |
| 7:45 AM | 0 | 3 | 0 | 4 | 0 | 3 | 0 | 3 | 0 | 8 | 67 | 14 | 0 | 19 | 96 | 0 | 217 | 609 | |
| 8:00 AM | 0 | 3 | 0 | 2 | 0 | 1 | 0 | 2 | 0 | 11 | 51 | 8 | 0 | 21 | 94 | 6 | 199 | 702 | |
| 8:15 AM | 0 | 3 | 1 | 0 | 0 | 1 | 0 | 2 | 0 | 7 | 71 | 8 | 0 | 28 | 78 | 3 | 202 | 751 | |
| 8:30 AM | 0 | 5 | 1 | 4 | 0 | 3 | 1 | 3 | 0 | 5 | 52 | 12 | 0 | 20 | 68 | 1 | 175 | 793 | |
| 8:45 AM | 1 | 5 | 3 | 2 | 0 | 2 | 1 | 7 | 0 | 7 | 68 | 13 | 0 | 10 | 70 | 3 | 192 | 768 | |
| Count Total | 1 | 22 | 5 | 19 | 0 | 10 | 2 | 21 | 0 | 48 | 467 | 72 | 0 | 137 | 549 | 24 | 1,377 | 0 | |
| Peak Hour | All | 0 | 14 | 2 | 10 | 0 | 8 | 1 | 10 | 0 | 31 | 241 | 42 | 0 | 88 | 336 | 10 | 793 | 0 |
| | HV | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 1 | 7 | 0 | 12 | 0 |
| | HV% | - | 0% | 0% | 0% | - | 0% | 0% | 0% | - | 0% | 2% | 0% | - | 1% | 2% | 0% | 2% | 0 |

Note: Two-hour count summary volumes include heavy vehicles but exclude bicycles in overall count.

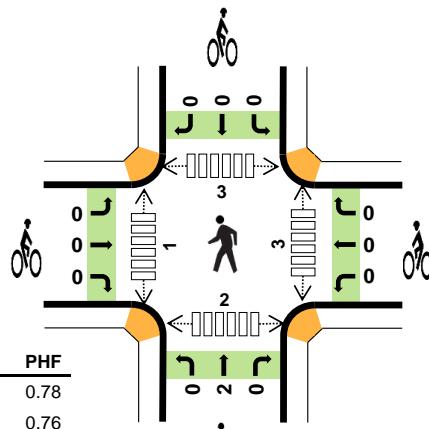
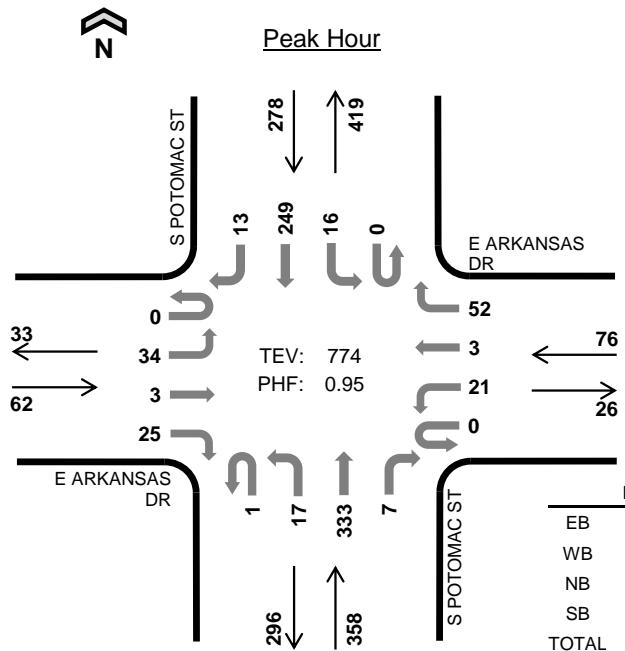
| Interval Start | Heavy Vehicle Totals | | | | Bicycles | | | | Pedestrians (Crossing Leg) | | | | | | |
|----------------|----------------------|----------|----------|----------|----------|----------|----------|----------|----------------------------|----------|----------|----------|----------|----------|----------|
| | EB | WB | NB | SB | Total | EB | WB | NB | SB | Total | East | West | North | South | Total |
| 7:00 AM | 0 | 0 | 1 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 3 | 5 |
| 7:15 AM | 0 | 0 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 2 | 4 | 0 | 3 | 9 |
| 7:30 AM | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 3 | 2 | 6 |
| 7:45 AM | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 3 |
| 8:00 AM | 0 | 0 | 1 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 3 | 4 |
| 8:15 AM | 0 | 0 | 0 | 4 | 4 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 3 | 5 |
| 8:30 AM | 0 | 0 | 2 | 3 | 5 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 2 | 3 | 9 |
| 8:45 AM | 1 | 0 | 2 | 1 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 3 | 5 |
| Count Total | 1 | 0 | 9 | 11 | 21 | 0 | 0 | 0 | 0 | 0 | 11 | 6 | 7 | 22 | 46 |
| Peak Hour | 0 | 0 | 4 | 8 | 12 | 0 | 0 | 0 | 0 | 0 | 7 | 0 | 3 | 11 | 21 |

| Two-Hour Count Summaries - Heavy Vehicles | | | | | | | | | | | | | | | | | | |
|---|---------------|----|----|----|---------------|----|----|----|--------------|----|----|----|--------------|----|----|----|--------------|------------------|
| Interval Start | E ARKANSAS DR | | | | E ARKANSAS DR | | | | S POTOMAC ST | | | | S POTOMAC ST | | | | 15-min Total | Rolling One Hour |
| | Eastbound | | | | Westbound | | | | Northbound | | | | Southbound | | | | | |
| | UT | LT | TH | RT | UT | LT | TH | RT | UT | LT | TH | RT | UT | LT | TH | RT | | |
| 7:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 2 | 0 |
| 7:15 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 2 | 0 |
| 7:30 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 |
| 7:45 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 6 |
| 8:00 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 2 | 6 |
| 8:15 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 4 | 8 |
| 8:30 AM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 1 | 2 | 0 | 5 | 12 |
| 8:45 AM | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 0 | 4 | 15 |
| Count Total | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 1 | 0 | 1 | 10 | 0 | 21 | 0 |
| Peak Hour | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 1 | 7 | 0 | 12 | 0 |
| Two-Hour Count Summaries - Bikes | | | | | | | | | | | | | | | | | | |
| Interval Start | E ARKANSAS DR | | | | E ARKANSAS DR | | | | S POTOMAC ST | | | | S POTOMAC ST | | | | 15-min Total | Rolling One Hour |
| | Eastbound | | | | Westbound | | | | Northbound | | | | Southbound | | | | | |
| | LT | TH | RT | | LT | TH | RT | | LT | TH | RT | | LT | TH | RT | | | |
| 7:00 AM | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 |
| 7:15 AM | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 |
| 7:30 AM | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 |
| 7:45 AM | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 |
| 8:00 AM | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 |
| 8:15 AM | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 |
| 8:30 AM | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 |
| 8:45 AM | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 |
| Count Total | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 |
| Peak Hour | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 |
| Note: U-Turn volumes for bikes are included in Left-Turn, if any. | | | | | | | | | | | | | | | | | | |

S POTOMAC ST E ARKANSAS DR



Date: 04/27/2022

 Count Period: 4:00 PM to 6:00 PM
 Peak Hour: 4:15 PM to 5:15 PM


Two-Hour Count Summaries

| Interval Start | E ARKANSAS DR | | | | E ARKANSAS DR | | | | S POTOMAC ST | | | | S POTOMAC ST | | | | 15-min Total | Rolling One Hour | |
|----------------|---------------|----|-----------|----|---------------|----|------------|----|--------------|----|-----|-----|--------------|----|-----|-----|--------------|------------------|---|
| | Eastbound | | Westbound | | Northbound | | Southbound | | UT | LT | TH | RT | UT | LT | TH | RT | | | |
| | UT | LT | TH | RT | UT | LT | TH | RT | UT | LT | TH | RT | UT | LT | TH | RT | | | |
| 4:00 PM | 0 | 5 | 1 | 5 | 0 | 8 | 1 | 13 | 0 | 6 | 66 | 4 | 0 | 2 | 68 | 2 | 181 | 0 | |
| 4:15 PM | 0 | 8 | 2 | 4 | 0 | 6 | 2 | 10 | 1 | 3 | 88 | 3 | 0 | 5 | 61 | 3 | 196 | 0 | |
| 4:30 PM | 0 | 9 | 0 | 11 | 0 | 5 | 0 | 15 | 0 | 5 | 72 | 1 | 0 | 4 | 62 | 4 | 188 | 0 | |
| 4:45 PM | 0 | 5 | 0 | 5 | 0 | 5 | 0 | 8 | 0 | 3 | 88 | 1 | 0 | 4 | 66 | 1 | 186 | 751 | |
| 5:00 PM | 0 | 12 | 1 | 5 | 0 | 5 | 1 | 19 | 0 | 6 | 85 | 2 | 0 | 3 | 60 | 5 | 204 | 774 | |
| 5:15 PM | 0 | 5 | 0 | 4 | 0 | 2 | 0 | 12 | 0 | 3 | 68 | 2 | 0 | 1 | 57 | 3 | 157 | 735 | |
| 5:30 PM | 0 | 4 | 0 | 3 | 0 | 5 | 0 | 7 | 0 | 6 | 66 | 0 | 0 | 1 | 73 | 2 | 167 | 714 | |
| 5:45 PM | 0 | 8 | 0 | 4 | 0 | 2 | 0 | 2 | 0 | 3 | 66 | 1 | 0 | 1 | 43 | 2 | 132 | 660 | |
| Count Total | 0 | 56 | 4 | 41 | 0 | 38 | 4 | 86 | 1 | 35 | 599 | 14 | 0 | 21 | 490 | 22 | 1,411 | 0 | |
| Peak Hour | All | 0 | 34 | 3 | 25 | 0 | 21 | 3 | 52 | 1 | 17 | 333 | 7 | 0 | 16 | 249 | 13 | 774 | 0 |
| | HV | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 1 | 0 | 0 | 4 | 0 | 12 | 0 | |
| | HV% | - | 3% | 0% | 0% | - | 0% | 0% | 0% | 0% | 0% | 2% | 14% | - | 0% | 2% | 0% | 2% | 0 |

Note: Two-hour count summary volumes include heavy vehicles but exclude bicycles in overall count.

| Interval Start | Heavy Vehicle Totals | | | | | Bicycles | | | | | Pedestrians (Crossing Leg) | | | | |
|----------------|----------------------|----|----|----|-------|----------|----|----|----|-------|----------------------------|------|-------|-------|-------|
| | EB | WB | NB | SB | Total | EB | WB | NB | SB | Total | East | West | North | South | Total |
| 4:00 PM | 1 | 0 | 0 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 2 | 1 | 5 |
| 4:15 PM | 0 | 0 | 4 | 1 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 2 |
| 4:30 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 1 | 1 | 0 | 1 | 3 |
| 4:45 PM | 1 | 0 | 2 | 2 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5:00 PM | 0 | 0 | 1 | 1 | 2 | 0 | 0 | 1 | 0 | 1 | 2 | 0 | 2 | 0 | 4 |
| 5:15 PM | 0 | 0 | 3 | 3 | 6 | 0 | 0 | 0 | 0 | 0 | 4 | 1 | 1 | 0 | 6 |
| 5:30 PM | 0 | 0 | 2 | 2 | 4 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 3 | 4 |
| 5:45 PM | 1 | 0 | 2 | 1 | 4 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 3 | 5 |
| Count Total | 3 | 0 | 14 | 11 | 28 | 0 | 0 | 2 | 0 | 2 | 11 | 3 | 6 | 9 | 29 |
| Peak Hour | 1 | 0 | 7 | 4 | 12 | 0 | 0 | 2 | 0 | 2 | 3 | 1 | 3 | 2 | 9 |

| Two-Hour Count Summaries - Heavy Vehicles | | | | | | | | | | | | | | | | | | |
|---|---------------|----|----|----|---------------|----|----|----|--------------|----|----|----|--------------|----|----|----|--------------|------------------|
| Interval Start | E ARKANSAS DR | | | | E ARKANSAS DR | | | | S POTOMAC ST | | | | S POTOMAC ST | | | | 15-min Total | Rolling One Hour |
| | Eastbound | | | | Westbound | | | | Northbound | | | | Southbound | | | | | |
| | UT | LT | TH | RT | UT | LT | TH | RT | UT | LT | TH | RT | UT | LT | TH | RT | | |
| 4:00 PM | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 2 | 0 |
| 4:15 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 1 | 0 | 0 | 1 | 0 | 5 | 0 |
| 4:30 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4:45 PM | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 2 | 0 | 5 | 12 |
| 5:00 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 2 | 12 |
| 5:15 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 3 | 0 | 6 | 13 |
| 5:30 PM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 2 | 0 | 4 | 17 |
| 5:45 PM | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 1 | 0 | 4 | 16 |
| Count Total | 0 | 2 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 13 | 1 | 0 | 0 | 11 | 0 | 28 | 0 |
| Peak Hour | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 1 | 0 | 0 | 4 | 0 | 12 | 0 |
| Two-Hour Count Summaries - Bikes | | | | | | | | | | | | | | | | | | |
| Interval Start | E ARKANSAS DR | | | | E ARKANSAS DR | | | | S POTOMAC ST | | | | S POTOMAC ST | | | | 15-min Total | Rolling One Hour |
| | Eastbound | | | | Westbound | | | | Northbound | | | | Southbound | | | | | |
| | LT | TH | RT | | LT | TH | RT | | LT | TH | RT | | LT | TH | RT | | | |
| 4:00 PM | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 |
| 4:15 PM | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 |
| 4:30 PM | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 1 | 0 | | 0 | 0 | 0 | | 1 | 0 |
| 4:45 PM | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 1 |
| 5:00 PM | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 1 | 0 | | 0 | 0 | 0 | | 1 | 2 |
| 5:15 PM | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 2 |
| 5:30 PM | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 1 |
| 5:45 PM | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 1 |
| Count Total | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 2 | 0 | | 0 | 0 | 0 | | 2 | 0 |
| Peak Hour | 0 | 0 | 0 | | 0 | 0 | 0 | | 0 | 2 | 0 | | 0 | 0 | 0 | | 2 | 0 |
| Note: U-Turn volumes for bikes are included in Left-Turn, if any. | | | | | | | | | | | | | | | | | | |

Intersection Capacity Worksheets:
2022 Existing



| Lane Group | EBL | EBT | EBR | WBL | WBT | NBL | NBT | NBR | SBL | SBT | SBR |
|----------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Lane Configurations | ↑ | ↑↑↑ | ↑ | ↑↑ | ↑↑↑ | ↑ | ↑ | ↑↑ | ↑ | ↑ | ↑ |
| Traffic Volume (vph) | 29 | 1143 | 130 | 784 | 1674 | 66 | 68 | 313 | 158 | 101 | 73 |
| Future Volume (vph) | 29 | 1143 | 130 | 784 | 1674 | 66 | 68 | 313 | 158 | 101 | 73 |
| Turn Type | Prot | NA | Perm | Prot | NA | pm+pt | NA | Perm | pm+pt | NA | Perm |
| Protected Phases | 5 | 2 | | 1 | 6 | 3 | 8 | | 7 | 4 | |
| Permitted Phases | | | | 2 | | | 8 | | 8 | 4 | |
| Detector Phase | 5 | 2 | 2 | 1 | 6 | 3 | 8 | 8 | 7 | 4 | 4 |
| Switch Phase | | | | | | | | | | | |
| Minimum Initial (s) | 4.0 | 10.0 | 10.0 | 4.0 | 10.0 | 3.0 | 5.0 | 5.0 | 3.0 | 5.0 | 5.0 |
| Minimum Split (s) | 9.5 | 29.0 | 29.0 | 9.5 | 24.0 | 9.5 | 38.0 | 38.0 | 9.5 | 34.0 | 34.0 |
| Total Split (s) | 14.0 | 30.0 | 30.0 | 46.0 | 62.0 | 10.0 | 20.0 | 20.0 | 25.0 | 35.0 | 35.0 |
| Total Split (%) | 11.6% | 24.8% | 24.8% | 38.0% | 51.2% | 8.3% | 16.5% | 16.5% | 20.7% | 28.9% | 28.9% |
| Yellow Time (s) | 3.0 | 4.0 | 4.0 | 3.0 | 4.0 | 3.0 | 4.0 | 4.0 | 3.0 | 4.0 | 4.0 |
| All-Red Time (s) | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 1.0 | 2.0 | 2.0 | 1.0 | 2.0 | 2.0 |
| Lost Time Adjust (s) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Lost Time (s) | 5.0 | 6.0 | 6.0 | 5.0 | 6.0 | 4.0 | 6.0 | 6.0 | 4.0 | 6.0 | 6.0 |
| Lead/Lag | Lead | Lag | Lag | Lead | Lag | Lead | Lag | Lag | Lead | Lag | Lag |
| Lead-Lag Optimize? | Yes |
| Recall Mode | None | C-Max | C-Max | None | C-Max | None | None | None | None | None | None |
| Act Effct Green (s) | 6.4 | 41.3 | 41.3 | 33.9 | 72.7 | 17.6 | 9.8 | 9.8 | 30.8 | 20.8 | 20.8 |
| Actuated g/C Ratio | 0.05 | 0.34 | 0.34 | 0.28 | 0.60 | 0.15 | 0.08 | 0.08 | 0.25 | 0.17 | 0.17 |
| v/c Ratio | 0.38 | 0.78 | 0.24 | 0.88 | 0.62 | 0.38 | 0.54 | 0.66 | 0.49 | 0.34 | 0.20 |

Intersection Summary

Cycle Length: 121

Actuated Cycle Length: 121

Offset: 95 (79%), Referenced to phase 2:EBT and 6:WBT, Start of Green

Natural Cycle: 120

Control Type: Actuated-Coordinated

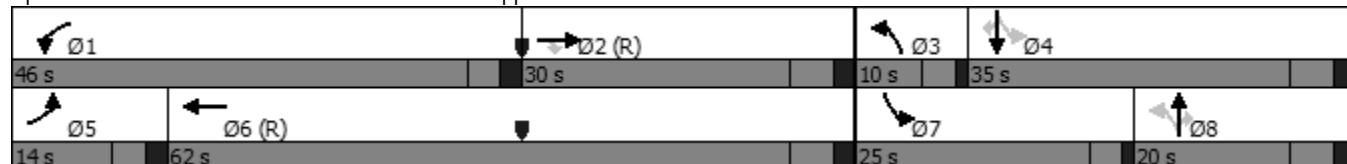
Maximum v/c Ratio: 0.88

Intersection Signal Delay: 31.6

Intersection Capacity Utilization 74.3%

Analysis Period (min) 15

Splits and Phases: 1: Potomac Street & Mississippi Avenue





| Lane Group | EBL | EBT | EBR | WBL | WBT | NBL | NBT | NBR | SBL | SBT | SBR |
|-------------------------|------|------|------|------|------|------|------|------|------|------|------|
| Lane Group Flow (vph) | 35 | 1361 | 155 | 834 | 1860 | 80 | 82 | 377 | 170 | 109 | 78 |
| v/c Ratio | 0.38 | 0.78 | 0.24 | 0.88 | 0.62 | 0.38 | 0.54 | 0.66 | 0.49 | 0.34 | 0.20 |
| Control Delay | 65.9 | 41.4 | 3.7 | 52.2 | 18.9 | 39.8 | 65.6 | 11.0 | 40.7 | 46.0 | 1.1 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay | 65.9 | 41.4 | 3.7 | 52.2 | 18.9 | 39.8 | 65.6 | 11.0 | 40.7 | 46.0 | 1.1 |
| Queue Length 50th (ft) | 27 | 347 | 0 | 320 | 343 | 49 | 63 | 0 | 110 | 78 | 0 |
| Queue Length 95th (ft) | 57 | #539 | 23 | 369 | 508 | 74 | 102 | 32 | 155 | 121 | 0 |
| Internal Link Dist (ft) | | | 1218 | | | 819 | | 404 | | | 347 |
| Turn Bay Length (ft) | 135 | | | 430 | 400 | | 160 | | 200 | 50 | 50 |
| Base Capacity (vph) | 131 | 1736 | 655 | 1152 | 3004 | 214 | 218 | 655 | 387 | 450 | 494 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.27 | 0.78 | 0.24 | 0.72 | 0.62 | 0.37 | 0.38 | 0.58 | 0.44 | 0.24 | 0.16 |

Intersection Summary

95th percentile volume exceeds capacity, queue may be longer.

Queue shown is maximum after two cycles.

HCM 6th Signalized Intersection Summary
05/17/2022

1: Potomac Street & Mississippi Avenue
2022 Existing - AM Peak Hour

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|----------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Lane Configurations | ↑ | ↑↑↑ | ↑ | ↑↑ | ↑↑↑ | ↑ | ↑ | ↑ | ↑↑ | ↑ | ↑ | ↑ |
| Traffic Volume (veh/h) | 29 | 1143 | 130 | 784 | 1674 | 74 | 66 | 68 | 313 | 158 | 101 | 73 |
| Future Volume (veh/h) | 29 | 1143 | 130 | 784 | 1674 | 74 | 66 | 68 | 313 | 158 | 101 | 73 |
| Initial Q (Q _b), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 0.99 | | 1.00 | 0.99 | | 0.99 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1856 | 1856 | 1856 | 1885 | 1885 | 1885 | 1885 | 1885 | 1885 |
| Adj Flow Rate, veh/h | 35 | 1361 | 0 | 834 | 1781 | 79 | 80 | 82 | 0 | 170 | 109 | 78 |
| Peak Hour Factor | 0.84 | 0.84 | 0.84 | 0.94 | 0.94 | 0.94 | 0.83 | 0.83 | 0.83 | 0.93 | 0.93 | 0.93 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 3 | 3 | 3 | 1 | 1 | 1 | 1 | 1 | 1 |
| Cap, veh/h | 44 | 2026 | | 897 | 3149 | 140 | 225 | 123 | | 274 | 223 | 188 |
| Arrive On Green | 0.02 | 0.40 | 0.00 | 0.26 | 0.63 | 0.63 | 0.05 | 0.07 | 0.00 | 0.10 | 0.12 | 0.12 |
| Sat Flow, veh/h | 1781 | 5106 | 1585 | 3428 | 4971 | 220 | 1795 | 1885 | 2812 | 1795 | 1885 | 1585 |
| Grp Volume(v), veh/h | 35 | 1361 | 0 | 834 | 1209 | 651 | 80 | 82 | 0 | 170 | 109 | 78 |
| Grp Sat Flow(s), veh/h/ln | 1781 | 1702 | 1585 | 1714 | 1689 | 1815 | 1795 | 1885 | 1406 | 1795 | 1885 | 1585 |
| Q Serve(g_s), s | 2.4 | 26.5 | 0.0 | 28.7 | 24.7 | 24.8 | 5.0 | 5.1 | 0.0 | 10.3 | 6.5 | 5.5 |
| Cycle Q Clear(g_c), s | 2.4 | 26.5 | 0.0 | 28.7 | 24.7 | 24.8 | 5.0 | 5.1 | 0.0 | 10.3 | 6.5 | 5.5 |
| Prop In Lane | 1.00 | | 1.00 | 1.00 | | 0.12 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 44 | 2026 | | 897 | 2139 | 1149 | 225 | 123 | | 274 | 223 | 188 |
| V/C Ratio(X) | 0.79 | 0.67 | | 0.93 | 0.57 | 0.57 | 0.36 | 0.67 | | 0.62 | 0.49 | 0.42 |
| Avail Cap(c_a), veh/h | 132 | 2026 | | 1162 | 2139 | 1149 | 225 | 218 | | 401 | 452 | 380 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(l) | 1.00 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 58.7 | 30.0 | 0.0 | 43.6 | 12.7 | 12.7 | 49.6 | 55.3 | 0.0 | 44.7 | 49.9 | 49.4 |
| Incr Delay (d2), s/veh | 10.7 | 1.8 | 0.0 | 9.8 | 1.1 | 2.0 | 0.4 | 2.3 | 0.0 | 0.9 | 0.6 | 0.5 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%), veh/ln | 1.2 | 10.8 | 0.0 | 13.0 | 8.8 | 9.8 | 2.3 | 2.5 | 0.0 | 4.7 | 3.2 | 2.2 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 69.4 | 31.8 | 0.0 | 53.4 | 13.8 | 14.7 | 50.0 | 57.6 | 0.0 | 45.5 | 50.5 | 50.0 |
| LnGrp LOS | E | C | | D | B | B | D | E | | D | D | D |
| Approach Vol, veh/h | | 1396 | | | 2694 | | | 162 | | 357 | | |
| Approach Delay, s/veh | | 32.8 | | | 26.2 | | | 53.8 | | 48.0 | | |
| Approach LOS | | C | | | C | | | D | | D | | |

Intersection Summary

HCM 6th Ctrl Delay 30.9
HCM 6th LOS C

Notes

User approved pedestrian interval to be less than phase max green.

Unsignalized Delay for [NBR, EBR] is excluded from calculations of the approach delay and intersection delay.



| Lane Group | EBL | EBT | EBR | WBL | WBT | NBL | NBT | SBT |
|----------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| Lane Configurations | | | | | | | | |
| Traffic Volume (vph) | 97 | 0 | 22 | 3 | 1 | 11 | 315 | 747 |
| Future Volume (vph) | 97 | 0 | 22 | 3 | 1 | 11 | 315 | 747 |
| Turn Type | Perm | NA | Perm | Perm | NA | Perm | NA | NA |
| Protected Phases | | | | | 8 | | 2 | 6 |
| Permitted Phases | 4 | | | 4 | 8 | | 2 | |
| Detector Phase | 4 | 4 | 4 | 8 | 8 | 2 | 2 | 6 |
| Switch Phase | | | | | | | | |
| Minimum Initial (s) | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 10.0 | 10.0 | 10.0 |
| Minimum Split (s) | 23.0 | 23.0 | 23.0 | 24.0 | 24.0 | 18.0 | 18.0 | 22.0 |
| Total Split (s) | 33.0 | 33.0 | 33.0 | 21.0 | 21.0 | 78.0 | 78.0 | 78.0 |
| Total Split (%) | 25.0% | 25.0% | 25.0% | 15.9% | 15.9% | 59.1% | 59.1% | 59.1% |
| Yellow Time (s) | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 4.0 | 4.0 | 4.0 |
| All-Red Time (s) | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 |
| Lost Time Adjust (s) | | | | | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Lost Time (s) | | | | | 5.0 | 6.0 | 6.0 | 6.0 |
| Lead/Lag | | | | | | | | |
| Lead-Lag Optimize? | | | | | | | | |
| Recall Mode | None | None | None | None | None | C-Min | C-Min | C-Min |
| Act Effect Green (s) | | 14.6 | 14.6 | | 6.2 | 101.5 | 101.5 | 101.5 |
| Actuated g/C Ratio | | 0.11 | 0.11 | | 0.05 | 0.77 | 0.77 | 0.77 |
| v/c Ratio | | 0.70 | 0.11 | | 0.14 | 0.04 | 0.24 | 0.68 |

Intersection Summary

Cycle Length: 132

Actuated Cycle Length: 132

Offset: 38 (29%), Referenced to phase 2:NBTL and 6:SBTL, Start of Yellow

Natural Cycle: 100

Control Type: Actuated-Coordinated

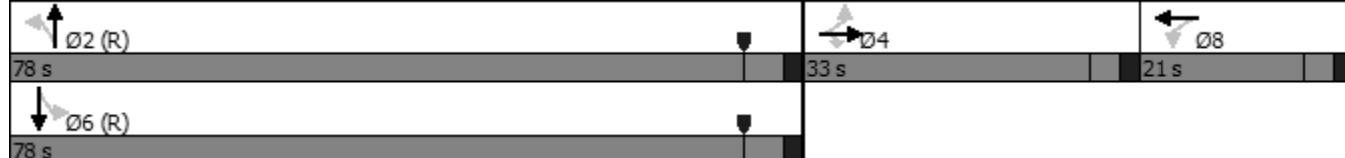
Maximum v/c Ratio: 0.70

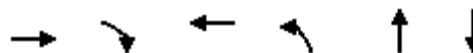
Intersection Signal Delay: 17.3

Intersection Capacity Utilization 67.1%

Analysis Period (min) 15

Splits and Phases: 2: Potomac Street & Louisiana Avenue





| Lane Group | EBT | EBR | WBT | NBL | NBT | SBT |
|-------------------------|------|------|------|------|------|------|
| Lane Group Flow (vph) | 104 | 24 | 12 | 12 | 350 | 957 |
| v/c Ratio | 0.70 | 0.11 | 0.14 | 0.04 | 0.24 | 0.68 |
| Control Delay | 79.8 | 1.0 | 63.0 | 6.8 | 6.2 | 12.9 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.7 |
| Total Delay | 79.8 | 1.0 | 63.0 | 6.8 | 6.2 | 14.6 |
| Queue Length 50th (ft) | 87 | 0 | 10 | 2 | 59 | 271 |
| Queue Length 95th (ft) | 144 | 0 | 12 | 11 | 165 | 668 |
| Internal Link Dist (ft) | 715 | | 260 | | 100 | 235 |
| Turn Bay Length (ft) | | | | 40 | | |
| Base Capacity (vph) | 285 | 375 | 230 | 306 | 1446 | 1409 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 279 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.36 | 0.06 | 0.05 | 0.04 | 0.24 | 0.85 |

Intersection Summary

HCM 6th Signalized Intersection Summary
05/17/2022

2: Potomac Street & Louisiana Avenue
2022 Existing - AM Peak Hour

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|--|-------|------|------|------|-------|------|------|------|------|------|------|------|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (veh/h) | 97 | 0 | 22 | 3 | 1 | 0 | 11 | 315 | 0 | 0 | 747 | 76 |
| Future Volume (veh/h) | 97 | 0 | 22 | 3 | 1 | 0 | 11 | 315 | 0 | 0 | 747 | 76 |
| Initial Q (Q _b), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ped-Bike Adj(A_pbT) | 0.99 | | 0.98 | 0.99 | | | 1.00 | 1.00 | | 1.00 | 1.00 | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1811 | 1811 | 1811 | 1900 | 1900 | 1900 | 1885 | 1885 | 1885 | 1870 | 1870 | 1870 |
| Adj Flow Rate, veh/h | 104 | 0 | 24 | 9 | 3 | 0 | 12 | 350 | 0 | 0 | 869 | 88 |
| Peak Hour Factor | 0.93 | 0.93 | 0.93 | 0.33 | 0.33 | 0.33 | 0.90 | 0.90 | 0.90 | 0.86 | 0.86 | 0.86 |
| Percent Heavy Veh, % | 6 | 6 | 6 | 0 | 0 | 0 | 1 | 1 | 1 | 2 | 2 | 2 |
| Cap, veh/h | 188 | 0 | 146 | 74 | 18 | 0 | 423 | 1545 | 0 | 55 | 1369 | 139 |
| Arrive On Green | 0.10 | 0.00 | 0.10 | 0.10 | 0.10 | 0.00 | 0.82 | 0.82 | 0.00 | 0.00 | 0.82 | 0.82 |
| Sat Flow, veh/h | 1374 | 0 | 1503 | 270 | 189 | 0 | 591 | 1885 | 0 | 1031 | 1670 | 169 |
| Grp Volume(v), veh/h | 104 | 0 | 24 | 12 | 0 | 0 | 12 | 350 | 0 | 0 | 0 | 957 |
| Grp Sat Flow(s), veh/h/ln | 1374 | 0 | 1503 | 459 | 0 | 0 | 591 | 1885 | 0 | 1031 | 0 | 1839 |
| Q Serve(g_s), s | 0.0 | 0.0 | 1.9 | 0.2 | 0.0 | 0.0 | 1.0 | 5.4 | 0.0 | 0.0 | 0.0 | 25.8 |
| Cycle Q Clear(g_c), s | 9.7 | 0.0 | 1.9 | 9.9 | 0.0 | 0.0 | 26.9 | 5.4 | 0.0 | 0.0 | 0.0 | 25.8 |
| Prop In Lane | 1.00 | | 1.00 | 0.75 | | | 0.00 | 1.00 | | 0.00 | 1.00 | 0.09 |
| Lane Grp Cap(c), veh/h | 188 | 0 | 146 | 92 | 0 | 0 | 423 | 1545 | 0 | 55 | 0 | 1507 |
| V/C Ratio(X) | 0.55 | 0.00 | 0.16 | 0.13 | 0.00 | 0.00 | 0.03 | 0.23 | 0.00 | 0.00 | 0.00 | 0.63 |
| Avail Cap(c_a), veh/h | 344 | 0 | 319 | 128 | 0 | 0 | 423 | 1545 | 0 | 55 | 0 | 1507 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(l) | 1.00 | 0.00 | 1.00 | 1.00 | 0.00 | 0.00 | 1.00 | 1.00 | 0.00 | 0.00 | 0.00 | 1.00 |
| Uniform Delay (d), s/veh | 58.2 | 0.0 | 54.7 | 55.4 | 0.0 | 0.0 | 9.5 | 2.6 | 0.0 | 0.0 | 0.0 | 4.5 |
| Incr Delay (d2), s/veh | 0.9 | 0.0 | 0.2 | 0.5 | 0.0 | 0.0 | 0.1 | 0.3 | 0.0 | 0.0 | 0.0 | 2.1 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%), veh/ln | 3.5 | 0.0 | 0.7 | 0.4 | 0.0 | 0.0 | 0.1 | 1.8 | 0.0 | 0.0 | 0.0 | 8.3 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 59.1 | 0.0 | 54.9 | 55.9 | 0.0 | 0.0 | 9.7 | 3.0 | 0.0 | 0.0 | 0.0 | 6.5 |
| LnGrp LOS | E | A | D | E | A | A | A | A | A | A | A | A |
| Approach Vol, veh/h | 128 | | | | 12 | | | 362 | | | 957 | |
| Approach Delay, s/veh | 58.3 | | | | 55.9 | | | 3.2 | | | 6.5 | |
| Approach LOS | E | | | | E | | | A | | | A | |
| Timer - Assigned Phs | 2 | | 4 | | 6 | | 8 | | | | | |
| Phs Duration (G+Y+Rc), s | 114.2 | | 17.8 | | 114.2 | | 17.8 | | | | | |
| Change Period (Y+Rc), s | 6.0 | | 5.0 | | 6.0 | | 5.0 | | | | | |
| Max Green Setting (Gmax), s | 72.0 | | 28.0 | | 72.0 | | 16.0 | | | | | |
| Max Q Clear Time (g_c+l1), s | 28.9 | | 11.7 | | 27.8 | | 11.9 | | | | | |
| Green Ext Time (p_c), s | 5.0 | | 0.3 | | 20.8 | | 0.0 | | | | | |
| Intersection Summary | | | | | | | | | | | | |
| HCM 6th Ctrl Delay | | | 10.7 | | | | | | | | | |
| HCM 6th LOS | | | B | | | | | | | | | |
| Notes | | | | | | | | | | | | |
| User approved pedestrian interval to be less than phase max green. | | | | | | | | | | | | |

| Intersection | | | | | | |
|--------------------------|--------|--------|--------|------|-------|------|
| Int Delay, s/veh | 0.1 | | | | | |
| Movement | WBL | WBR | NBT | NBR | SBL | SBT |
| Lane Configurations | | | | | | |
| Traffic Vol, veh/h | 4 | 1 | 325 | 4 | 0 | 772 |
| Future Vol, veh/h | 4 | 1 | 325 | 4 | 0 | 772 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 3 | 3 | 0 |
| Sign Control | Stop | Stop | Free | Free | Free | Free |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | 0 | - | - | - | 30 | - |
| Veh in Median Storage, # | 0 | - | 0 | - | - | 0 |
| Grade, % | 0 | - | 0 | - | - | 0 |
| Peak Hour Factor | 63 | 63 | 91 | 91 | 89 | 89 |
| Heavy Vehicles, % | 1 | 1 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 6 | 2 | 357 | 4 | 0 | 867 |
| Major/Minor | Minor1 | Major1 | Major2 | | | |
| Conflicting Flow All | 1229 | 362 | 0 | 0 | 364 | 0 |
| Stage 1 | 362 | - | - | - | - | - |
| Stage 2 | 867 | - | - | - | - | - |
| Critical Hdwy | 6.41 | 6.21 | - | - | 4.12 | - |
| Critical Hdwy Stg 1 | 5.41 | - | - | - | - | - |
| Critical Hdwy Stg 2 | 5.41 | - | - | - | - | - |
| Follow-up Hdwy | 3.509 | 3.309 | - | - | 2.218 | - |
| Pot Cap-1 Maneuver | 197 | 685 | - | - | 1195 | - |
| Stage 1 | 707 | - | - | - | - | - |
| Stage 2 | 413 | - | - | - | - | - |
| Platoon blocked, % | - | - | - | - | - | - |
| Mov Cap-1 Maneuver | 196 | 683 | - | - | 1192 | - |
| Mov Cap-2 Maneuver | 318 | - | - | - | - | - |
| Stage 1 | 705 | - | - | - | - | - |
| Stage 2 | 413 | - | - | - | - | - |
| Approach | WB | NB | SB | | | |
| HCM Control Delay, s | 15.3 | 0 | 0 | | | |
| HCM LOS | C | | | | | |
| Minor Lane/Major Mvmt | NBT | NBR | WBLn1 | SBL | SBT | |
| Capacity (veh/h) | - | - | 356 | 1192 | - | |
| HCM Lane V/C Ratio | - | - | 0.022 | - | - | |
| HCM Control Delay (s) | - | - | 15.3 | 0 | - | |
| HCM Lane LOS | - | - | C | A | - | |
| HCM 95th %tile Q(veh) | - | - | 0.1 | 0 | - | |

Intersection

Int Delay, s/veh 2.5

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|--------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Lane Configurations | ↖ ↗ | ↖ ↗ | ↖ ↗ | ↖ ↗ | ↖ ↗ | ↖ ↗ | ↖ ↗ | ↖ ↗ | ↖ ↗ | ↖ ↗ | ↖ ↗ | ↖ ↗ |
| Traffic Vol, veh/h | 14 | 2 | 10 | 8 | 1 | 10 | 31 | 241 | 42 | 88 | 336 | 10 |
| Future Vol, veh/h | 14 | 2 | 10 | 8 | 1 | 10 | 31 | 241 | 42 | 88 | 336 | 10 |
| Conflicting Peds, #/hr | 11 | 0 | 3 | 3 | 0 | 11 | 0 | 0 | 7 | 7 | 0 | 0 |
| Sign Control | Stop | Stop | Stop | Stop | Stop | Stop | Free | Free | Free | Free | Free | Free |
| RT Channelized | - | - | None |
| Storage Length | 40 | - | - | 40 | - | - | 100 | - | - | 100 | - | - |
| Veh in Median Storage, # | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Grade, % | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Peak Hour Factor | 65 | 65 | 65 | 68 | 80 | 68 | 88 | 88 | 88 | 90 | 90 | 90 |
| Heavy Vehicles, % | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 2 | 2 | 2 |
| Mvmt Flow | 22 | 3 | 15 | 12 | 1 | 15 | 35 | 274 | 48 | 98 | 373 | 11 |

| Major/Minor | Minor2 | Minor1 | | | Major1 | | | Major2 | | | | |
|----------------------|--------|--------|-----|-----|--------|-----|-------|--------|---|-------|---|---|
| Conflicting Flow All | 962 | 974 | 382 | 962 | 955 | 316 | 384 | 0 | 0 | 329 | 0 | 0 |
| Stage 1 | 575 | 575 | - | 375 | 375 | - | - | - | - | - | - | - |
| Stage 2 | 387 | 399 | - | 587 | 580 | - | - | - | - | - | - | - |
| Critical Hdwy | 7.1 | 6.5 | 6.2 | 7.1 | 6.5 | 6.2 | 4.11 | - | - | 4.12 | - | - |
| Critical Hdwy Stg 1 | 6.1 | 5.5 | - | 6.1 | 5.5 | - | - | - | - | - | - | - |
| Critical Hdwy Stg 2 | 6.1 | 5.5 | - | 6.1 | 5.5 | - | - | - | - | - | - | - |
| Follow-up Hdwy | 3.5 | 4 | 3.3 | 3.5 | 4 | 3.3 | 2.209 | - | - | 2.218 | - | - |
| Pot Cap-1 Maneuver | 237 | 254 | 670 | 237 | 260 | 729 | 1180 | - | - | 1231 | - | - |
| Stage 1 | 507 | 506 | - | 650 | 621 | - | - | - | - | - | - | - |
| Stage 2 | 641 | 606 | - | 499 | 503 | - | - | - | - | - | - | - |
| Platoon blocked, % | | | | | | | | - | - | - | - | - |
| Mov Cap-1 Maneuver | 210 | 225 | 668 | 208 | 230 | 717 | 1180 | - | - | 1223 | - | - |
| Mov Cap-2 Maneuver | 210 | 225 | - | 208 | 230 | - | - | - | - | - | - | - |
| Stage 1 | 492 | 466 | - | 627 | 598 | - | - | - | - | - | - | - |
| Stage 2 | 602 | 584 | - | 444 | 463 | - | - | - | - | - | - | - |

| Approach | EB | WB | | | NB | | | SB | | | | |
|-----------------------|------|------|-----|-------|-------|-------|-------|------|-----|-----|--|--|
| HCM Control Delay, s | 18.7 | 16.2 | | | 0.8 | | | 1.7 | | | | |
| HCM LOS | C | C | | | | | | | | | | |
| Minor Lane/Major Mvmt | NBL | NBT | NBR | EBLn1 | EBLn2 | WBLn1 | WBLn2 | SBL | SBT | SBR | | |
| Capacity (veh/h) | 1180 | - | - | 210 | 503 | 208 | 615 | 1223 | - | - | | |
| HCM Lane V/C Ratio | 0.03 | - | - | 0.103 | 0.037 | 0.057 | 0.026 | 0.08 | - | - | | |
| HCM Control Delay (s) | 8.1 | - | - | 24.1 | 12.4 | 23.3 | 11 | 8.2 | - | - | | |
| HCM Lane LOS | A | - | - | C | B | C | B | A | - | - | | |
| HCM 95th %tile Q(veh) | 0.1 | - | - | 0.3 | 0.1 | 0.2 | 0.1 | 0.3 | - | - | | |

Intersection

Intersection Delay, s/veh 7.9

Intersection LOS A

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|----------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Lane Configurations | | ↔ | | | ↔ | | | ↔ | | | ↔ | |
| Traffic Vol, veh/h | 34 | 26 | 5 | 2 | 21 | 29 | 7 | 61 | 3 | 20 | 14 | 18 |
| Future Vol, veh/h | 34 | 26 | 5 | 2 | 21 | 29 | 7 | 61 | 3 | 20 | 14 | 18 |
| Peak Hour Factor | 0.77 | 0.77 | 0.77 | 0.93 | 0.93 | 0.93 | 0.71 | 0.71 | 0.71 | 0.62 | 0.62 | 0.62 |
| Heavy Vehicles, % | 6 | 6 | 6 | 8 | 8 | 8 | 0 | 0 | 0 | 10 | 10 | 10 |
| Mvmt Flow | 44 | 34 | 6 | 2 | 23 | 31 | 10 | 86 | 4 | 32 | 23 | 29 |
| Number of Lanes | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 |
| Approach | EB | | | WB | | | NB | | | SB | | |
| Opposing Approach | WB | | | EB | | | SB | | | NB | | |
| Opposing Lanes | 1 | | | 1 | | | 1 | | | 1 | | |
| Conflicting Approach Left | SB | | | NB | | | EB | | | WB | | |
| Conflicting Lanes Left | 1 | | | 1 | | | 1 | | | 1 | | |
| Conflicting Approach Right | NB | | | SB | | | WB | | | EB | | |
| Conflicting Lanes Right | 1 | | | 1 | | | 1 | | | 1 | | |
| HCM Control Delay | 8.1 | | | 7.5 | | | 7.9 | | | 7.9 | | |
| HCM LOS | A | | | A | | | A | | | A | | |

| Lane | NBLn1 | EBLn1 | WBLn1 | SBLn1 |
|------------------------|-------|-------|-------|-------|
| Vol Left, % | 10% | 52% | 4% | 38% |
| Vol Thru, % | 86% | 40% | 40% | 27% |
| Vol Right, % | 4% | 8% | 56% | 35% |
| Sign Control | Stop | Stop | Stop | Stop |
| Traffic Vol by Lane | 71 | 65 | 52 | 52 |
| LT Vol | 7 | 34 | 2 | 20 |
| Through Vol | 61 | 26 | 21 | 14 |
| RT Vol | 3 | 5 | 29 | 18 |
| Lane Flow Rate | 100 | 84 | 56 | 84 |
| Geometry Grp | 1 | 1 | 1 | 1 |
| Degree of Util (X) | 0.12 | 0.106 | 0.066 | 0.102 |
| Departure Headway (Hd) | 4.309 | 4.537 | 4.221 | 4.371 |
| Convergence, Y/N | Yes | Yes | Yes | Yes |
| Cap | 835 | 793 | 851 | 823 |
| Service Time | 2.32 | 2.55 | 2.235 | 2.381 |
| HCM Lane V/C Ratio | 0.12 | 0.106 | 0.066 | 0.102 |
| HCM Control Delay | 7.9 | 8.1 | 7.5 | 7.9 |
| HCM Lane LOS | A | A | A | A |
| HCM 95th-tile Q | 0.4 | 0.4 | 0.2 | 0.3 |

| Lane Group | EBL | EBT | EBR | WBL | WBT | NBL | NBT | NBR | SBL | SBT | SBR |
|----------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Lane Configurations | ↑ | ↑↑↑ | ↑ | ↑↑ | ↑↑↑ | ↑ | ↑ | ↑↑ | ↑ | ↑ | ↑ |
| Traffic Volume (vph) | 38 | 1651 | 75 | 301 | 1526 | 108 | 92 | 558 | 202 | 150 | 96 |
| Future Volume (vph) | 38 | 1651 | 75 | 301 | 1526 | 108 | 92 | 558 | 202 | 150 | 96 |
| Turn Type | Prot | NA | Perm | Prot | NA | pm+pt | NA | Perm | pm+pt | NA | pm+ov |
| Protected Phases | 5 | 2 | | 1 | 6 | 3 | 8 | | 7 | 4 | 5 |
| Permitted Phases | | | | | | | 8 | | 8 | 4 | |
| Detector Phase | 5 | 2 | 2 | 1 | 6 | 3 | 8 | 8 | 7 | 4 | 5 |
| Switch Phase | | | | | | | | | | | |
| Minimum Initial (s) | 4.0 | 10.0 | 10.0 | 4.0 | 10.0 | 3.0 | 5.0 | 5.0 | 3.0 | 5.0 | 4.0 |
| Minimum Split (s) | 9.5 | 29.0 | 29.0 | 9.5 | 24.0 | 9.5 | 38.0 | 38.0 | 9.5 | 34.0 | 9.5 |
| Total Split (s) | 14.0 | 47.0 | 47.0 | 26.0 | 59.0 | 23.0 | 26.0 | 26.0 | 23.0 | 26.0 | 14.0 |
| Total Split (%) | 11.5% | 38.5% | 38.5% | 21.3% | 48.4% | 18.9% | 21.3% | 21.3% | 18.9% | 21.3% | 11.5% |
| Yellow Time (s) | 3.0 | 4.0 | 4.0 | 3.0 | 4.0 | 3.0 | 4.0 | 4.0 | 3.0 | 4.0 | 3.0 |
| All-Red Time (s) | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 1.0 | 2.0 | 2.0 | 1.0 | 2.0 | 2.0 |
| Lost Time Adjust (s) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Lost Time (s) | 5.0 | 6.0 | 6.0 | 5.0 | 6.0 | 4.0 | 6.0 | 6.0 | 4.0 | 6.0 | 5.0 |
| Lead/Lag | Lead | Lag | Lag | Lead | Lag | Lead | Lag | Lag | Lead | Lag | Lead |
| Lead-Lag Optimize? | Yes |
| Recall Mode | None | C-Max | C-Max | None | C-Max | None | None | None | None | None | None |
| Act Effct Green (s) | 6.7 | 56.1 | 56.1 | 15.1 | 64.6 | 25.1 | 12.8 | 12.8 | 35.7 | 19.4 | 27.1 |
| Actuated g/C Ratio | 0.05 | 0.46 | 0.46 | 0.12 | 0.53 | 0.21 | 0.10 | 0.10 | 0.29 | 0.16 | 0.22 |
| v/c Ratio | 0.43 | 0.78 | 0.10 | 0.75 | 0.64 | 0.41 | 0.54 | 0.82 | 0.61 | 0.60 | 0.51 |

Intersection Summary

Cycle Length: 122

Actuated Cycle Length: 122

Offset: 45 (37%), Referenced to phase 2:EBT and 6:WBT, Start of Green

Natural Cycle: 100

Control Type: Actuated-Coordinated

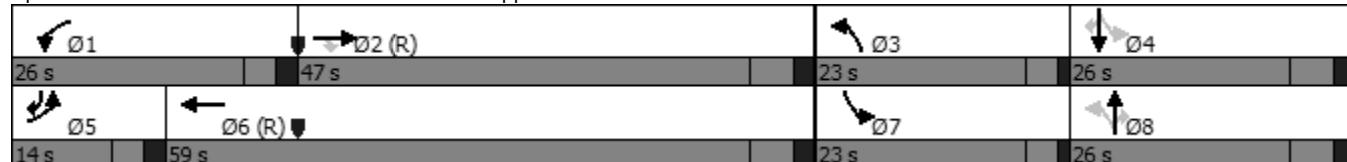
Maximum v/c Ratio: 0.82

Intersection Signal Delay: 30.4

Intersection Capacity Utilization 76.9%

Analysis Period (min) 15

Splits and Phases: 1: Potomac Street & Mississippi Avenue





| Lane Group | EBL | EBT | EBR | WBL | WBT | NBL | NBT | NBR | SBL | SBT | SBR |
|-------------------------|------|------|------|------|------|------|------|------|------|------|------|
| Lane Group Flow (vph) | 42 | 1814 | 82 | 317 | 1702 | 123 | 105 | 634 | 240 | 179 | 240 |
| v/c Ratio | 0.43 | 0.78 | 0.10 | 0.75 | 0.64 | 0.41 | 0.54 | 0.82 | 0.61 | 0.60 | 0.51 |
| Control Delay | 68.9 | 32.2 | 0.3 | 62.5 | 23.2 | 35.8 | 60.5 | 17.9 | 41.1 | 55.4 | 16.0 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay | 68.9 | 32.2 | 0.3 | 62.5 | 23.2 | 35.8 | 60.5 | 17.9 | 41.1 | 55.4 | 16.0 |
| Queue Length 50th (ft) | 33 | 434 | 0 | 126 | 339 | 73 | 80 | 39 | 153 | 132 | 51 |
| Queue Length 95th (ft) | 70 | #654 | 0 | 169 | 472 | 108 | 127 | 94 | 191 | 182 | 0 |
| Internal Link Dist (ft) | | | 1218 | | | 819 | | 404 | | | 347 |
| Turn Bay Length (ft) | 135 | | | 430 | 400 | | 160 | | 200 | 50 | 50 |
| Base Capacity (vph) | 130 | 2340 | 788 | 590 | 2665 | 419 | 308 | 906 | 405 | 331 | 500 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.32 | 0.78 | 0.10 | 0.54 | 0.64 | 0.29 | 0.34 | 0.70 | 0.59 | 0.54 | 0.48 |

Intersection Summary

95th percentile volume exceeds capacity, queue may be longer.

Queue shown is maximum after two cycles.

HCM 6th Signalized Intersection Summary
05/17/2022

1: Potomac Street & Mississippi Avenue
2022 Existing - PM Peak Hour

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|----------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Lane Configurations | ↑ | ↑↑↑ | ↑ | ↑↑ | ↑↑↑ | | ↑ | ↑ | ↑↑ | ↑ | ↑ | ↑ |
| Traffic Volume (veh/h) | 38 | 1651 | 75 | 301 | 1526 | 91 | 108 | 92 | 558 | 202 | 150 | 96 |
| Future Volume (veh/h) | 38 | 1651 | 75 | 301 | 1526 | 91 | 108 | 92 | 558 | 202 | 150 | 96 |
| Initial Q (Q _b), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 0.99 | 0.99 | | 1.00 | 0.99 | | 0.99 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | No | | | No | | | No | | | No | | |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1885 | 1885 | 1885 | 1885 | 1885 | 1885 |
| Adj Flow Rate, veh/h | 42 | 1814 | 0 | 317 | 1606 | 96 | 123 | 105 | 0 | 240 | 179 | 240 |
| Peak Hour Factor | 0.91 | 0.91 | 0.91 | 0.95 | 0.95 | 0.95 | 0.88 | 0.88 | 0.88 | 0.84 | 0.84 | 0.40 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| Cap, veh/h | 54 | 2461 | | 375 | 2758 | 165 | 267 | 198 | | 364 | 304 | 304 |
| Arrive On Green | 0.03 | 0.48 | 0.00 | 0.11 | 0.56 | 0.56 | 0.08 | 0.10 | 0.00 | 0.13 | 0.16 | 0.16 |
| Sat Flow, veh/h | 1781 | 5106 | 1585 | 3456 | 4924 | 294 | 1795 | 1885 | 2812 | 1795 | 1885 | 1586 |
| Grp Volume(v), veh/h | 42 | 1814 | 0 | 317 | 1110 | 592 | 123 | 105 | 0 | 240 | 179 | 240 |
| Grp Sat Flow(s), veh/h/ln | 1781 | 1702 | 1585 | 1728 | 1702 | 1814 | 1795 | 1885 | 1406 | 1795 | 1885 | 1586 |
| Q Serve(g_s), s | 2.9 | 34.8 | 0.0 | 11.0 | 26.0 | 26.0 | 7.3 | 6.4 | 0.0 | 14.0 | 10.7 | 17.6 |
| Cycle Q Clear(g_c), s | 2.9 | 34.8 | 0.0 | 11.0 | 26.0 | 26.0 | 7.3 | 6.4 | 0.0 | 14.0 | 10.7 | 17.6 |
| Prop In Lane | 1.00 | | 1.00 | 1.00 | | 0.16 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 54 | 2461 | | 375 | 1907 | 1016 | 267 | 198 | | 364 | 304 | 304 |
| V/C Ratio(X) | 0.78 | 0.74 | | 0.84 | 0.58 | 0.58 | 0.46 | 0.53 | | 0.66 | 0.59 | 0.79 |
| Avail Cap(c_a), veh/h | 131 | 2461 | | 595 | 1907 | 1016 | 410 | 309 | | 406 | 309 | 308 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(l) | 1.00 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 58.8 | 25.4 | 0.0 | 53.4 | 17.5 | 17.5 | 44.0 | 51.7 | 0.0 | 39.6 | 47.4 | 47.0 |
| Incr Delay (d2), s/veh | 8.7 | 2.0 | 0.0 | 3.5 | 1.3 | 2.4 | 0.5 | 0.8 | 0.0 | 2.3 | 1.9 | 11.6 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%), veh/ln | 1.4 | 13.8 | 0.0 | 4.9 | 9.9 | 10.9 | 3.3 | 3.1 | 0.0 | 6.5 | 5.3 | 7.9 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 67.4 | 27.4 | 0.0 | 56.9 | 18.8 | 20.0 | 44.5 | 52.6 | 0.0 | 41.9 | 49.3 | 58.6 |
| LnGrp LOS | E | C | | E | B | B | D | D | | D | D | E |
| Approach Vol, veh/h | 1856 | | | 2019 | | | 228 | | | 659 | | |
| Approach Delay, s/veh | 28.3 | | | 25.1 | | | 48.2 | | | 50.0 | | |
| Approach LOS | C | | | C | | | D | | | D | | |
| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | | | |
| Phs Duration (G+Y+Rc), s | 18.2 | 64.8 | 13.3 | 25.7 | 8.7 | 74.3 | 20.2 | 18.8 | | | | |
| Change Period (Y+Rc), s | 5.0 | 6.0 | 4.0 | 6.0 | 5.0 | 6.0 | 4.0 | 6.0 | | | | |
| Max Green Setting (Gmax), s | 21.0 | 41.0 | 19.0 | 20.0 | 9.0 | 53.0 | 19.0 | 20.0 | | | | |
| Max Q Clear Time (g_c+l1), s | 13.0 | 36.8 | 9.3 | 19.6 | 4.9 | 28.0 | 16.0 | 8.4 | | | | |
| Green Ext Time (p_c), s | 0.3 | 3.5 | 0.1 | 0.1 | 0.0 | 13.1 | 0.1 | 0.2 | | | | |

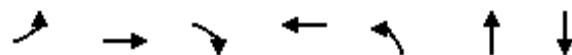
Intersection Summary

HCM 6th Ctrl Delay 30.9
HCM 6th LOS C

Notes

User approved pedestrian interval to be less than phase max green.

Unsignalized Delay for [NBR, EBR] is excluded from calculations of the approach delay and intersection delay.



| Lane Group | EBL | EBT | EBR | WBT | NBL | NBT | SBT |
|----------------------|-------|-------|-------|-------|-------|-------|-------|
| Lane Configurations | | | | | | | |
| Traffic Volume (vph) | 97 | 0 | 7 | 0 | 12 | 671 | 315 |
| Future Volume (vph) | 97 | 0 | 7 | 0 | 12 | 671 | 315 |
| Turn Type | Perm | NA | Perm | NA | Perm | NA | NA |
| Protected Phases | | 4 | | 8 | | 2 | 6 |
| Permitted Phases | 4 | | 4 | | 2 | | |
| Detector Phase | 4 | 4 | 4 | 8 | 2 | 2 | 6 |
| Switch Phase | | | | | | | |
| Minimum Initial (s) | 5.0 | 5.0 | 5.0 | 5.0 | 10.0 | 10.0 | 10.0 |
| Minimum Split (s) | 23.0 | 23.0 | 23.0 | 24.0 | 18.0 | 18.0 | 22.0 |
| Total Split (s) | 33.0 | 33.0 | 33.0 | 21.0 | 78.0 | 78.0 | 78.0 |
| Total Split (%) | 25.0% | 25.0% | 25.0% | 15.9% | 59.1% | 59.1% | 59.1% |
| Yellow Time (s) | 3.0 | 3.0 | 3.0 | 3.0 | 4.0 | 4.0 | 4.0 |
| All-Red Time (s) | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 |
| Lost Time Adjust (s) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Lost Time (s) | | 5.0 | 5.0 | 6.0 | 6.0 | 6.0 | |
| Lead/Lag | | | | | | | |
| Lead-Lag Optimize? | | | | | | | |
| Recall Mode | None | None | None | None | C-Min | C-Min | C-Min |
| Act Effect Green (s) | 45.4 | 45.4 | 5.0 | 73.6 | 73.6 | 73.6 | |
| Actuated g/C Ratio | 0.34 | 0.34 | 0.04 | 0.56 | 0.56 | 0.56 | |
| v/c Ratio | 2.20 | 0.02 | 0.03 | 0.03 | 0.78 | 0.43 | |

Intersection Summary

Cycle Length: 132

Actuated Cycle Length: 132

Offset: 38 (29%), Referenced to phase 2:NBTL and 6:SBTL, Start of Yellow

Natural Cycle: 90

Control Type: Actuated-Coordinated

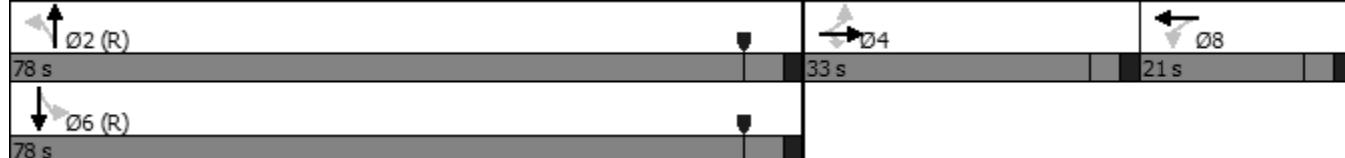
Maximum v/c Ratio: 2.20

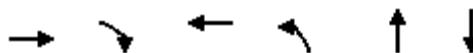
Intersection Signal Delay: 76.9

Intersection Capacity Utilization 56.9%

Analysis Period (min) 15

Splits and Phases: 2: Potomac Street & Louisiana Avenue





| Lane Group | EBT | EBR | WBT | NBL | NBT | SBT |
|-------------------------|-------|------|------|------|------|------|
| Lane Group Flow (vph) | 123 | 9 | 8 | 14 | 810 | 429 |
| v/c Ratio | 2.20 | 0.02 | 0.03 | 0.03 | 0.78 | 0.43 |
| Control Delay | 622.8 | 0.0 | 0.0 | 11.7 | 28.5 | 17.1 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay | 622.8 | 0.0 | 0.0 | 11.7 | 28.5 | 17.1 |
| Queue Length 50th (ft) | ~167 | 0 | 0 | 5 | 521 | 195 |
| Queue Length 95th (ft) | #251 | 0 | 0 | 12 | 493 | 226 |
| Internal Link Dist (ft) | 715 | | 260 | | 100 | 235 |
| Turn Bay Length (ft) | | | | 40 | | |
| Base Capacity (vph) | 56 | 570 | 416 | 434 | 1055 | 1020 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 2.20 | 0.02 | 0.02 | 0.03 | 0.77 | 0.42 |

Intersection Summary

- ~ Volume exceeds capacity, queue is theoretically infinite.
Queue shown is maximum after two cycles.
- # 95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

HCM 6th Signalized Intersection Summary
05/17/2022

2: Potomac Street & Louisiana Avenue
2022 Existing - PM Peak Hour

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|----------------------------------|-------|------|------|------|-------|------|------|------|------|------|------|------|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (veh/h) | 97 | 0 | 7 | 0 | 0 | 2 | 12 | 671 | 2 | 0 | 315 | 92 |
| Future Volume (veh/h) | 97 | 0 | 7 | 0 | 0 | 2 | 12 | 671 | 2 | 0 | 315 | 92 |
| Initial Q (Q _b), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ped-Bike Adj(A_pbT) | 0.99 | | 0.99 | 1.00 | | 0.99 | 1.00 | | 0.97 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1900 | 1900 | 1900 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 |
| Adj Flow Rate, veh/h | 123 | 0 | 9 | 0 | 0 | 8 | 14 | 808 | 2 | 0 | 332 | 97 |
| Peak Hour Factor | 0.79 | 0.79 | 0.79 | 0.25 | 0.25 | 0.25 | 0.83 | 0.83 | 0.83 | 0.95 | 0.95 | 0.95 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 0 | 0 | 0 | 2 | 2 | 2 | 2 | 2 | 2 |
| Cap, veh/h | 203 | 0 | 173 | 0 | 0 | 177 | 768 | 1503 | 4 | 55 | 1119 | 327 |
| Arrive On Green | 0.11 | 0.00 | 0.11 | 0.00 | 0.00 | 0.11 | 0.81 | 0.81 | 0.81 | 0.00 | 0.81 | 0.81 |
| Sat Flow, veh/h | 1340 | 0 | 1564 | 0 | 0 | 1597 | 958 | 1865 | 5 | 673 | 1389 | 406 |
| Grp Volume(v), veh/h | 123 | 0 | 9 | 0 | 0 | 8 | 14 | 0 | 810 | 0 | 0 | 429 |
| Grp Sat Flow(s), veh/h/ln | 1340 | 0 | 1564 | 0 | 0 | 1597 | 958 | 0 | 1869 | 673 | 0 | 1795 |
| Q Serve(g_s), s | 11.4 | 0.0 | 0.7 | 0.0 | 0.0 | 0.6 | 0.5 | 0.0 | 19.6 | 0.0 | 0.0 | 8.1 |
| Cycle Q Clear(g_c), s | 12.0 | 0.0 | 0.7 | 0.0 | 0.0 | 0.6 | 8.6 | 0.0 | 19.6 | 0.0 | 0.0 | 8.1 |
| Prop In Lane | 1.00 | | 1.00 | 0.00 | | 1.00 | 1.00 | | 0.00 | 1.00 | | 0.23 |
| Lane Grp Cap(c), veh/h | 203 | 0 | 173 | 0 | 0 | 177 | 768 | 0 | 1506 | 55 | 0 | 1446 |
| V/C Ratio(X) | 0.61 | 0.00 | 0.05 | 0.00 | 0.00 | 0.05 | 0.02 | 0.00 | 0.54 | 0.00 | 0.00 | 0.30 |
| Avail Cap(c_a), veh/h | 344 | 0 | 332 | 0 | 0 | 194 | 768 | 0 | 1506 | 55 | 0 | 1446 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(l) | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 1.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 1.00 |
| Uniform Delay (d), s/veh | 57.8 | 0.0 | 52.5 | 0.0 | 0.0 | 52.4 | 4.4 | 0.0 | 4.4 | 0.0 | 0.0 | 3.3 |
| Incr Delay (d2), s/veh | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 1.4 | 0.0 | 0.0 | 0.5 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%), veh/ln | 4.1 | 0.0 | 0.3 | 0.0 | 0.0 | 0.2 | 0.1 | 0.0 | 6.6 | 0.0 | 0.0 | 2.6 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 58.9 | 0.0 | 52.5 | 0.0 | 0.0 | 52.5 | 4.4 | 0.0 | 5.8 | 0.0 | 0.0 | 3.8 |
| LnGrp LOS | E | A | D | A | A | D | A | A | A | A | A | A |
| Approach Vol, veh/h | 132 | | | | 8 | | | 824 | | | 429 | |
| Approach Delay, s/veh | 58.4 | | | | 52.5 | | | 5.8 | | | 3.8 | |
| Approach LOS | E | | | | D | | | A | | | A | |
| Timer - Assigned Phs | 2 | | 4 | | 6 | | 8 | | | | | |
| Phs Duration (G+Y+Rc), s | 112.4 | | 19.6 | | 112.4 | | 19.6 | | | | | |
| Change Period (Y+Rc), s | 6.0 | | 5.0 | | 6.0 | | 5.0 | | | | | |
| Max Green Setting (Gmax), s | 72.0 | | 28.0 | | 72.0 | | 16.0 | | | | | |
| Max Q Clear Time (g_c+l1), s | 21.6 | | 14.0 | | 10.1 | | 2.6 | | | | | |
| Green Ext Time (p_c), s | 16.5 | | 0.3 | | 6.6 | | 0.0 | | | | | |

Intersection Summary

HCM 6th Ctrl Delay 10.4
HCM 6th LOS B

Notes

User approved pedestrian interval to be less than phase max green.

Intersection

Int Delay, s/veh 0

| Movement | WBL | WBR | NBT | NBR | SBL | SBT |
|--------------------------|------|------|------|------|------|------|
| Lane Configurations | W | B | T | T | B | T |
| Traffic Vol, veh/h | 0 | 0 | 685 | 0 | 0 | 322 |
| Future Vol, veh/h | 0 | 0 | 685 | 0 | 0 | 322 |
| Conflicting Peds, #/hr | 1 | 1 | 0 | 11 | 11 | 0 |
| Sign Control | Stop | Stop | Free | Free | Free | Free |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | 0 | - | - | - | 30 | - |
| Veh in Median Storage, # | 0 | - | 0 | - | - | 0 |
| Grade, % | 0 | - | 0 | - | - | 0 |
| Peak Hour Factor | 25 | 25 | 82 | 82 | 89 | 89 |
| Heavy Vehicles, % | 0 | 0 | 2 | 2 | 3 | 3 |
| Mvmt Flow | 0 | 0 | 835 | 0 | 0 | 362 |

| Major/Minor | Minor1 | Major1 | Major2 | | |
|----------------------|--------|--------|--------|---|-------|
| Conflicting Flow All | 1209 | 847 | 0 | 0 | 846 |
| Stage 1 | 846 | - | - | - | - |
| Stage 2 | 363 | - | - | - | - |
| Critical Hdwy | 6.4 | 6.2 | - | - | 4.13 |
| Critical Hdwy Stg 1 | 5.4 | - | - | - | - |
| Critical Hdwy Stg 2 | 5.4 | - | - | - | - |
| Follow-up Hdwy | 3.5 | 3.3 | - | - | 2.227 |
| Pot Cap-1 Maneuver | 204 | 365 | - | - | 787 |
| Stage 1 | 424 | - | - | - | - |
| Stage 2 | 708 | - | - | - | - |
| Platoon blocked, % | - | - | - | - | - |
| Mov Cap-1 Maneuver | 202 | 361 | - | - | 779 |
| Mov Cap-2 Maneuver | 323 | - | - | - | - |
| Stage 1 | 420 | - | - | - | - |
| Stage 2 | 707 | - | - | - | - |

| Approach | WB | NB | SB | | |
|-----------------------|-----|----------|-----|-----|---|
| HCM Control Delay, s | 0 | 0 | 0 | | |
| HCM LOS | A | | | | |
| Minor Lane/Major Mvmt | NBT | NBRWBLn1 | SBL | SBT | |
| Capacity (veh/h) | - | - | - | 779 | - |
| HCM Lane V/C Ratio | - | - | - | - | - |
| HCM Control Delay (s) | - | - | 0 | 0 | - |
| HCM Lane LOS | - | - | A | A | - |
| HCM 95th %tile Q(veh) | - | - | - | 0 | - |

| Intersection | | | | | | | | | | | | |
|--------------------------|--------|--------|-------|-------|--------|-------|-------|--------|------|-------|------|------|
| Int Delay, s/veh | 3.3 | | | | | | | | | | | |
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations | ↖ | ↗ | | ↖ | ↗ | | ↖ | ↗ | | ↖ | ↗ | |
| Traffic Vol, veh/h | 34 | 3 | 25 | 21 | 3 | 52 | 18 | 333 | 7 | 16 | 249 | 13 |
| Future Vol, veh/h | 34 | 3 | 25 | 21 | 3 | 52 | 18 | 333 | 7 | 16 | 249 | 13 |
| Conflicting Peds, #/hr | 3 | 0 | 2 | 2 | 0 | 3 | 1 | 0 | 3 | 3 | 0 | 1 |
| Sign Control | Stop | Stop | Stop | Stop | Stop | Stop | Free | Free | Free | Free | Free | Free |
| RT Channelized | - | - | None | - | - | None | - | - | None | - | - | None |
| Storage Length | 40 | - | - | 40 | - | - | 100 | - | - | 100 | - | - |
| Veh in Median Storage, # | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Grade, % | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Peak Hour Factor | 78 | 78 | 78 | 76 | 76 | 76 | 94 | 94 | 94 | 98 | 98 | 98 |
| Heavy Vehicles, % | 2 | 2 | 2 | 0 | 0 | 0 | 2 | 2 | 2 | 1 | 1 | 1 |
| Mvmt Flow | 44 | 4 | 32 | 28 | 4 | 68 | 19 | 354 | 7 | 16 | 254 | 13 |
| Major/Minor | Minor2 | Minor1 | | | Major1 | | | Major2 | | | | |
| Conflicting Flow All | 729 | 696 | 264 | 712 | 699 | 364 | 268 | 0 | 0 | 364 | 0 | 0 |
| Stage 1 | 294 | 294 | - | 399 | 399 | - | - | - | - | - | - | - |
| Stage 2 | 435 | 402 | - | 313 | 300 | - | - | - | - | - | - | - |
| Critical Hdwy | 7.12 | 6.52 | 6.22 | 7.1 | 6.5 | 6.2 | 4.12 | - | - | 4.11 | - | - |
| Critical Hdwy Stg 1 | 6.12 | 5.52 | - | 6.1 | 5.5 | - | - | - | - | - | - | - |
| Critical Hdwy Stg 2 | 6.12 | 5.52 | - | 6.1 | 5.5 | - | - | - | - | - | - | - |
| Follow-up Hdwy | 3.518 | 4.018 | 3.318 | 3.5 | 4 | 3.3 | 2.218 | - | - | 2.209 | - | - |
| Pot Cap-1 Maneuver | 338 | 365 | 775 | 350 | 366 | 685 | 1296 | - | - | 1200 | - | - |
| Stage 1 | 714 | 670 | - | 631 | 606 | - | - | - | - | - | - | - |
| Stage 2 | 600 | 600 | - | 702 | 669 | - | - | - | - | - | - | - |
| Platoon blocked, % | | | | | | | | - | - | - | - | - |
| Mov Cap-1 Maneuver | 294 | 353 | 773 | 324 | 354 | 681 | 1295 | - | - | 1197 | - | - |
| Mov Cap-2 Maneuver | 294 | 353 | - | 324 | 354 | - | - | - | - | - | - | - |
| Stage 1 | 703 | 661 | - | 620 | 595 | - | - | - | - | - | - | - |
| Stage 2 | 527 | 589 | - | 659 | 660 | - | - | - | - | - | - | - |
| Approach | EB | WB | | | NB | | | SB | | | | |
| HCM Control Delay, s | 15.4 | 12.9 | | | 0.4 | | | 0.5 | | | | |
| HCM LOS | C | B | | | | | | | | | | |
| Minor Lane/Major Mvmt | NBL | NBT | NBR | EBLn1 | EBLn2 | WBLn1 | WBLn2 | SBL | SBT | SBR | | |
| Capacity (veh/h) | 1295 | - | - | 294 | 686 | 324 | 648 | 1197 | - | - | | |
| HCM Lane V/C Ratio | 0.015 | - | - | 0.148 | 0.052 | 0.085 | 0.112 | 0.014 | - | - | | |
| HCM Control Delay (s) | 7.8 | - | - | 19.4 | 10.5 | 17.1 | 11.3 | 8 | - | - | | |
| HCM Lane LOS | A | - | - | C | B | C | B | A | - | - | | |
| HCM 95th %tile Q(veh) | 0 | - | - | 0.5 | 0.2 | 0.3 | 0.4 | 0 | - | - | | |

Intersection

Intersection Delay, s/veh 7.8
Intersection LOS A

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|----------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Lane Configurations | | ↔ | | | ↔ | | | ↔ | | | ↔ | |
| Traffic Vol, veh/h | 19 | 15 | 10 | 3 | 20 | 21 | 4 | 39 | 2 | 19 | 54 | 27 |
| Future Vol, veh/h | 19 | 15 | 10 | 3 | 20 | 21 | 4 | 39 | 2 | 19 | 54 | 27 |
| Peak Hour Factor | 0.65 | 0.65 | 0.65 | 0.58 | 0.58 | 0.58 | 0.87 | 0.87 | 0.87 | 0.81 | 0.81 | 0.81 |
| Heavy Vehicles, % | 5 | 5 | 5 | 7 | 7 | 7 | 0 | 0 | 0 | 2 | 2 | 2 |
| Mvmt Flow | 29 | 23 | 15 | 5 | 34 | 36 | 5 | 45 | 2 | 23 | 67 | 33 |
| Number of Lanes | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 |
| Approach | EB | | | WB | | | NB | | | SB | | |
| Opposing Approach | WB | | | EB | | | SB | | | NB | | |
| Opposing Lanes | 1 | | | 1 | | | 1 | | | 1 | | |
| Conflicting Approach Left | SB | | | NB | | | EB | | | WB | | |
| Conflicting Lanes Left | 1 | | | 1 | | | 1 | | | 1 | | |
| Conflicting Approach Right | NB | | | SB | | | WB | | | EB | | |
| Conflicting Lanes Right | 1 | | | 1 | | | 1 | | | 1 | | |
| HCM Control Delay | 7.8 | | | 7.6 | | | 7.6 | | | 7.9 | | |
| HCM LOS | A | | | A | | | A | | | A | | |

| Lane | NBLn1 | EBLn1 | WBLn1 | SBLn1 |
|------------------------|-------|-------|-------|-------|
| Vol Left, % | 9% | 43% | 7% | 19% |
| Vol Thru, % | 87% | 34% | 45% | 54% |
| Vol Right, % | 4% | 23% | 48% | 27% |
| Sign Control | Stop | Stop | Stop | Stop |
| Traffic Vol by Lane | 45 | 44 | 44 | 100 |
| LT Vol | 4 | 19 | 3 | 19 |
| Through Vol | 39 | 15 | 20 | 54 |
| RT Vol | 2 | 10 | 21 | 27 |
| Lane Flow Rate | 52 | 68 | 76 | 123 |
| Geometry Grp | 1 | 1 | 1 | 1 |
| Degree of Util (X) | 0.062 | 0.083 | 0.089 | 0.144 |
| Departure Headway (Hd) | 4.342 | 4.405 | 4.211 | 4.198 |
| Convergence, Y/N | Yes | Yes | Yes | Yes |
| Cap | 828 | 816 | 854 | 859 |
| Service Time | 2.355 | 2.416 | 2.22 | 2.198 |
| HCM Lane V/C Ratio | 0.063 | 0.083 | 0.089 | 0.143 |
| HCM Control Delay | 7.6 | 7.8 | 7.6 | 7.9 |
| HCM Lane LOS | A | A | A | A |
| HCM 95th-tile Q | 0.2 | 0.3 | 0.3 | 0.5 |

***Intersection Capacity Worksheets:
2025 Background***

| Lane Group | EBL | EBT | EBR | WBL | WBT | NBL | NBT | NBR | SBL | SBT | SBR |
|----------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Lane Configurations | ↑ | ↑↑↑ | ↑ | ↑↑ | ↑↑↑ | ↑ | ↑ | ↑↑ | ↑ | ↑ | ↑ |
| Traffic Volume (vph) | 29 | 1177 | 132 | 796 | 1724 | 67 | 69 | 318 | 160 | 103 | 74 |
| Future Volume (vph) | 29 | 1177 | 132 | 796 | 1724 | 67 | 69 | 318 | 160 | 103 | 74 |
| Turn Type | Prot | NA | Perm | Prot | NA | pm+pt | NA | Perm | pm+pt | NA | Perm |
| Protected Phases | 5 | 2 | | 1 | 6 | 3 | 8 | | 7 | 4 | |
| Permitted Phases | | | | 2 | | | 8 | | 8 | 4 | |
| Detector Phase | 5 | 2 | 2 | 1 | 6 | 3 | 8 | 8 | 7 | 4 | 4 |
| Switch Phase | | | | | | | | | | | |
| Minimum Initial (s) | 4.0 | 10.0 | 10.0 | 4.0 | 10.0 | 3.0 | 5.0 | 5.0 | 3.0 | 5.0 | 5.0 |
| Minimum Split (s) | 9.5 | 29.0 | 29.0 | 9.5 | 24.0 | 9.5 | 38.0 | 38.0 | 9.5 | 34.0 | 34.0 |
| Total Split (s) | 14.0 | 30.0 | 30.0 | 46.0 | 62.0 | 10.0 | 20.0 | 20.0 | 25.0 | 35.0 | 35.0 |
| Total Split (%) | 11.6% | 24.8% | 24.8% | 38.0% | 51.2% | 8.3% | 16.5% | 16.5% | 20.7% | 28.9% | 28.9% |
| Yellow Time (s) | 3.0 | 4.0 | 4.0 | 3.0 | 4.0 | 3.0 | 4.0 | 4.0 | 3.0 | 4.0 | 4.0 |
| All-Red Time (s) | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 1.0 | 2.0 | 2.0 | 1.0 | 2.0 | 2.0 |
| Lost Time Adjust (s) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Lost Time (s) | 5.0 | 6.0 | 6.0 | 5.0 | 6.0 | 4.0 | 6.0 | 6.0 | 4.0 | 6.0 | 6.0 |
| Lead/Lag | Lead | Lag | Lag | Lead | Lag | Lead | Lag | Lag | Lead | Lag | Lag |
| Lead-Lag Optimize? | Yes |
| Recall Mode | None | C-Max | C-Max | None | C-Max | None | None | None | None | None | None |
| Act Effct Green (s) | 6.4 | 40.8 | 40.8 | 34.3 | 72.6 | 17.6 | 9.8 | 9.8 | 30.9 | 20.9 | 20.9 |
| Actuated g/C Ratio | 0.05 | 0.34 | 0.34 | 0.28 | 0.60 | 0.15 | 0.08 | 0.08 | 0.26 | 0.17 | 0.17 |
| v/c Ratio | 0.38 | 0.82 | 0.24 | 0.88 | 0.64 | 0.38 | 0.55 | 0.66 | 0.50 | 0.34 | 0.20 |

Intersection Summary

Cycle Length: 121

Actuated Cycle Length: 121

Offset: 95 (79%), Referenced to phase 2:EBT and 6:WBT, Start of Green

Natural Cycle: 120

Control Type: Actuated-Coordinated

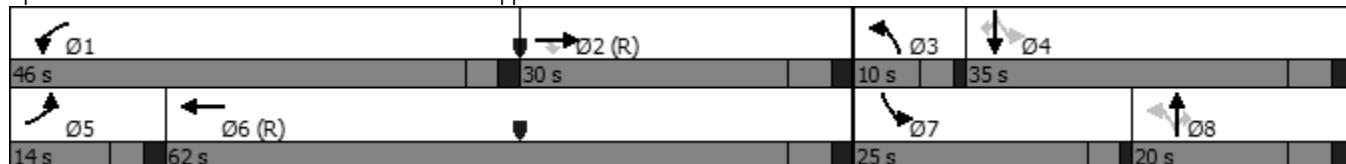
Maximum v/c Ratio: 0.88

Intersection Signal Delay: 32.2

Intersection Capacity Utilization 75.4%

Analysis Period (min) 15

Splits and Phases: 1: Potomac Street & Mississippi Avenue





| Lane Group | EBL | EBT | EBR | WBL | WBT | NBL | NBT | NBR | SBL | SBT | SBR |
|-------------------------|------|------|------|------|------|------|------|------|------|------|------|
| Lane Group Flow (vph) | 35 | 1401 | 157 | 847 | 1917 | 81 | 83 | 383 | 172 | 111 | 80 |
| v/c Ratio | 0.38 | 0.82 | 0.24 | 0.88 | 0.64 | 0.38 | 0.55 | 0.66 | 0.50 | 0.34 | 0.20 |
| Control Delay | 65.9 | 42.9 | 3.9 | 52.1 | 19.4 | 39.9 | 65.9 | 11.0 | 40.7 | 46.0 | 1.1 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay | 65.9 | 42.9 | 3.9 | 52.1 | 19.4 | 39.9 | 65.9 | 11.0 | 40.7 | 46.0 | 1.1 |
| Queue Length 50th (ft) | 27 | 364 | 0 | 324 | 361 | 50 | 64 | 0 | 112 | 79 | 0 |
| Queue Length 95th (ft) | 57 | #567 | 24 | 374 | 532 | 74 | 103 | 32 | 157 | 123 | 0 |
| Internal Link Dist (ft) | | | 1218 | | | 819 | | 404 | | | 347 |
| Turn Bay Length (ft) | 135 | | | 430 | 400 | | 160 | | 200 | 50 | 50 |
| Base Capacity (vph) | 131 | 1714 | 649 | 1152 | 3000 | 214 | 218 | 660 | 388 | 450 | 494 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.27 | 0.82 | 0.24 | 0.74 | 0.64 | 0.38 | 0.38 | 0.58 | 0.44 | 0.25 | 0.16 |

Intersection Summary

95th percentile volume exceeds capacity, queue may be longer.

Queue shown is maximum after two cycles.

HCM 6th Signalized Intersection Summary
05/17/2022

1: Potomac Street & Mississippi Avenue
2025 Background - AM Peak Hour

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|----------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Lane Configurations | ↑ | ↑↑↑ | ↑ | ↑↑ | ↑↑↑ | ↑ | ↑ | ↑ | ↑↑ | ↑ | ↑ | ↑ |
| Traffic Volume (veh/h) | 29 | 1177 | 132 | 796 | 1724 | 78 | 67 | 69 | 318 | 160 | 103 | 74 |
| Future Volume (veh/h) | 29 | 1177 | 132 | 796 | 1724 | 78 | 67 | 69 | 318 | 160 | 103 | 74 |
| Initial Q (Q _b), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 0.99 | | 1.00 | 0.99 | | 0.99 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | No | | No | | | No | | | No | | No | |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1856 | 1856 | 1856 | 1885 | 1885 | 1885 | 1885 | 1885 | 1885 |
| Adj Flow Rate, veh/h | 35 | 1401 | 0 | 847 | 1834 | 83 | 81 | 83 | 0 | 172 | 111 | 80 |
| Peak Hour Factor | 0.84 | 0.84 | 0.84 | 0.94 | 0.94 | 0.94 | 0.83 | 0.83 | 0.83 | 0.93 | 0.93 | 0.93 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 3 | 3 | 3 | 1 | 1 | 1 | 1 | 1 | 1 |
| Cap, veh/h | 44 | 1999 | | 910 | 3139 | 142 | 226 | 124 | | 276 | 226 | 190 |
| Arrive On Green | 0.02 | 0.39 | 0.00 | 0.27 | 0.63 | 0.63 | 0.05 | 0.07 | 0.00 | 0.10 | 0.12 | 0.12 |
| Sat Flow, veh/h | 1781 | 5106 | 1585 | 3428 | 4967 | 224 | 1795 | 1885 | 2812 | 1795 | 1885 | 1586 |
| Grp Volume(v), veh/h | 35 | 1401 | 0 | 847 | 1246 | 671 | 81 | 83 | 0 | 172 | 111 | 80 |
| Grp Sat Flow(s), veh/h/ln | 1781 | 1702 | 1585 | 1714 | 1689 | 1814 | 1795 | 1885 | 1406 | 1795 | 1885 | 1586 |
| Q Serve(g_s), s | 2.4 | 27.8 | 0.0 | 29.2 | 26.0 | 26.1 | 5.1 | 5.2 | 0.0 | 10.4 | 6.7 | 5.7 |
| Cycle Q Clear(g_c), s | 2.4 | 27.8 | 0.0 | 29.2 | 26.0 | 26.1 | 5.1 | 5.2 | 0.0 | 10.4 | 6.7 | 5.7 |
| Prop In Lane | 1.00 | | 1.00 | 1.00 | | 0.12 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 44 | 1999 | | 910 | 2134 | 1146 | 226 | 124 | | 276 | 226 | 190 |
| V/C Ratio(X) | 0.79 | 0.70 | | 0.93 | 0.58 | 0.59 | 0.36 | 0.67 | | 0.62 | 0.49 | 0.42 |
| Avail Cap(c_a), veh/h | 132 | 1999 | | 1162 | 2134 | 1146 | 226 | 218 | | 401 | 452 | 380 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(l) | 1.00 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 58.7 | 30.9 | 0.0 | 43.4 | 13.0 | 13.0 | 49.6 | 55.2 | 0.0 | 44.6 | 49.8 | 49.4 |
| Incr Delay (d2), s/veh | 10.7 | 2.1 | 0.0 | 10.1 | 1.2 | 2.2 | 0.4 | 2.3 | 0.0 | 0.9 | 0.6 | 0.6 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%), veh/ln | 1.2 | 11.4 | 0.0 | 13.3 | 9.3 | 10.3 | 2.3 | 2.6 | 0.0 | 4.8 | 3.2 | 2.3 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 69.4 | 32.9 | 0.0 | 53.5 | 14.2 | 15.2 | 49.9 | 57.6 | 0.0 | 45.4 | 50.4 | 49.9 |
| LnGrp LOS | E | C | | D | B | B | D | E | | D | D | D |
| Approach Vol, veh/h | 1436 | | | 2764 | | | 164 | | | 363 | | |
| Approach Delay, s/veh | 33.8 | | | 26.5 | | | 53.8 | | | 47.9 | | |
| Approach LOS | C | | | C | | | D | | | D | | |
| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | | | |
| Phs Duration (G+Y+Rc), s | 37.1 | 53.4 | 10.0 | 20.5 | 8.0 | 82.5 | 16.5 | 14.0 | | | | |
| Change Period (Y+Rc), s | 5.0 | 6.0 | 4.0 | 6.0 | 5.0 | 6.0 | 4.0 | 6.0 | | | | |
| Max Green Setting (Gmax), s | 41.0 | 24.0 | 6.0 | 29.0 | 9.0 | 56.0 | 21.0 | 14.0 | | | | |
| Max Q Clear Time (g_c+l1), s | 31.2 | 29.8 | 7.1 | 8.7 | 4.4 | 28.1 | 12.4 | 7.2 | | | | |
| Green Ext Time (p_c), s | 0.9 | 0.0 | 0.0 | 0.5 | 0.0 | 16.2 | 0.2 | 0.1 | | | | |

Intersection Summary

HCM 6th Ctrl Delay 31.3
HCM 6th LOS C

Notes

User approved pedestrian interval to be less than phase max green.

Unsignalized Delay for [NBR, EBR] is excluded from calculations of the approach delay and intersection delay.



| Lane Group | EBL | EBT | EBR | WBL | WBT | NBL | NBT | SBT |
|----------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| Lane Configurations | | | | | | | | |
| Traffic Volume (vph) | 98 | 0 | 22 | 3 | 1 | 11 | 320 | 758 |
| Future Volume (vph) | 98 | 0 | 22 | 3 | 1 | 11 | 320 | 758 |
| Turn Type | Perm | NA | Perm | Perm | NA | Perm | NA | NA |
| Protected Phases | | | | | 8 | | 2 | 6 |
| Permitted Phases | 4 | | | 4 | 8 | | 2 | |
| Detector Phase | 4 | 4 | 4 | 8 | 8 | 2 | 2 | 6 |
| Switch Phase | | | | | | | | |
| Minimum Initial (s) | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 10.0 | 10.0 | 10.0 |
| Minimum Split (s) | 23.0 | 23.0 | 23.0 | 24.0 | 24.0 | 18.0 | 18.0 | 22.0 |
| Total Split (s) | 33.0 | 33.0 | 33.0 | 21.0 | 21.0 | 78.0 | 78.0 | 78.0 |
| Total Split (%) | 25.0% | 25.0% | 25.0% | 15.9% | 15.9% | 59.1% | 59.1% | 59.1% |
| Yellow Time (s) | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 4.0 | 4.0 | 4.0 |
| All-Red Time (s) | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 |
| Lost Time Adjust (s) | | | | | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Lost Time (s) | | | | 5.0 | 5.0 | 6.0 | 6.0 | 6.0 |
| Lead/Lag | | | | | | | | |
| Lead-Lag Optimize? | | | | | | | | |
| Recall Mode | None | None | None | None | None | C-Min | C-Min | C-Min |
| Act Effect Green (s) | | 14.7 | 14.7 | | 6.2 | 101.4 | 101.4 | 101.4 |
| Actuated g/C Ratio | | 0.11 | 0.11 | | 0.05 | 0.77 | 0.77 | 0.77 |
| v/c Ratio | | 0.70 | 0.11 | | 0.14 | 0.04 | 0.25 | 0.69 |

Intersection Summary

Cycle Length: 132

Actuated Cycle Length: 132

Offset: 38 (29%), Referenced to phase 2:NBTL and 6:SBTL, Start of Yellow

Natural Cycle: 110

Control Type: Actuated-Coordinated

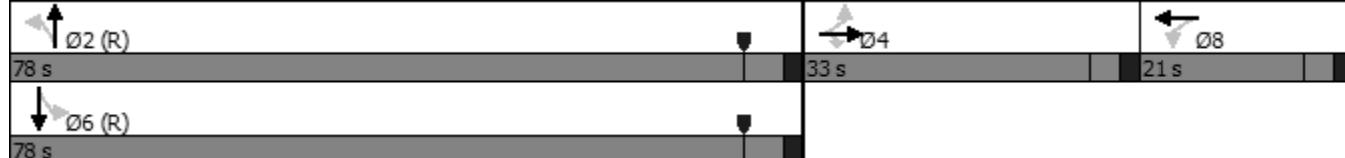
Maximum v/c Ratio: 0.70

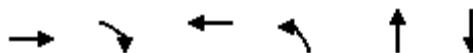
Intersection Signal Delay: 17.7

Intersection Capacity Utilization 67.7%

Analysis Period (min) 15

Splits and Phases: 2: Potomac Street & Louisiana Avenue





| Lane Group | EBT | EBR | WBT | NBL | NBT | SBT |
|-------------------------|------|------|------|------|------|------|
| Lane Group Flow (vph) | 105 | 24 | 12 | 12 | 356 | 971 |
| v/c Ratio | 0.70 | 0.11 | 0.14 | 0.04 | 0.25 | 0.69 |
| Control Delay | 79.7 | 0.9 | 63.0 | 6.9 | 6.2 | 13.3 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.9 |
| Total Delay | 79.7 | 0.9 | 63.0 | 6.9 | 6.2 | 15.2 |
| Queue Length 50th (ft) | 88 | 0 | 10 | 2 | 60 | 281 |
| Queue Length 95th (ft) | 145 | 0 | 12 | 12 | 169 | 693 |
| Internal Link Dist (ft) | 715 | | 260 | | 100 | 235 |
| Turn Bay Length (ft) | | | | 40 | | |
| Base Capacity (vph) | 285 | 375 | 230 | 296 | 1444 | 1407 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 274 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.37 | 0.06 | 0.05 | 0.04 | 0.25 | 0.86 |

Intersection Summary

HCM 6th Signalized Intersection Summary
05/17/2022

2: Potomac Street & Louisiana Avenue
2025 Background - AM Peak Hour

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|--|-------|------|------|------|-------|------|------|------|------|------|------|------|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (veh/h) | 98 | 0 | 22 | 3 | 1 | 0 | 11 | 320 | 0 | 0 | 758 | 77 |
| Future Volume (veh/h) | 98 | 0 | 22 | 3 | 1 | 0 | 11 | 320 | 0 | 0 | 758 | 77 |
| Initial Q (Q _b), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ped-Bike Adj(A_pbT) | 0.99 | | 0.98 | 0.99 | | | 1.00 | 1.00 | | 1.00 | 1.00 | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1811 | 1811 | 1811 | 1900 | 1900 | 1900 | 1885 | 1885 | 1885 | 1870 | 1870 | 1870 |
| Adj Flow Rate, veh/h | 105 | 0 | 24 | 9 | 3 | 0 | 12 | 356 | 0 | 0 | 881 | 90 |
| Peak Hour Factor | 0.93 | 0.93 | 0.93 | 0.33 | 0.33 | 0.33 | 0.90 | 0.90 | 0.90 | 0.86 | 0.86 | 0.86 |
| Percent Heavy Veh, % | 6 | 6 | 6 | 0 | 0 | 0 | 1 | 1 | 1 | 2 | 2 | 2 |
| Cap, veh/h | 189 | 0 | 147 | 74 | 18 | 0 | 414 | 1544 | 0 | 55 | 1366 | 140 |
| Arrive On Green | 0.10 | 0.00 | 0.10 | 0.10 | 0.10 | 0.00 | 0.82 | 0.82 | 0.00 | 0.00 | 0.82 | 0.82 |
| Sat Flow, veh/h | 1373 | 0 | 1503 | 267 | 187 | 0 | 584 | 1885 | 0 | 1025 | 1668 | 170 |
| Grp Volume(v), veh/h | 105 | 0 | 24 | 12 | 0 | 0 | 12 | 356 | 0 | 0 | 0 | 971 |
| Grp Sat Flow(s), veh/h/ln | 1373 | 0 | 1503 | 454 | 0 | 0 | 584 | 1885 | 0 | 1025 | 0 | 1839 |
| Q Serve(g_s), s | 0.0 | 0.0 | 1.9 | 0.2 | 0.0 | 0.0 | 1.1 | 5.6 | 0.0 | 0.0 | 0.0 | 26.8 |
| Cycle Q Clear(g_c), s | 9.8 | 0.0 | 1.9 | 10.0 | 0.0 | 0.0 | 27.8 | 5.6 | 0.0 | 0.0 | 0.0 | 26.8 |
| Prop In Lane | 1.00 | | 1.00 | 0.75 | | | 0.00 | 1.00 | | 0.00 | 1.00 | 0.09 |
| Lane Grp Cap(c), veh/h | 189 | 0 | 147 | 92 | 0 | 0 | 414 | 1544 | 0 | 55 | 0 | 1506 |
| V/C Ratio(X) | 0.56 | 0.00 | 0.16 | 0.13 | 0.00 | 0.00 | 0.03 | 0.23 | 0.00 | 0.00 | 0.00 | 0.64 |
| Avail Cap(c_a), veh/h | 344 | 0 | 319 | 127 | 0 | 0 | 414 | 1544 | 0 | 55 | 0 | 1506 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(l) | 1.00 | 0.00 | 1.00 | 1.00 | 0.00 | 0.00 | 1.00 | 1.00 | 0.00 | 0.00 | 0.00 | 1.00 |
| Uniform Delay (d), s/veh | 58.2 | 0.0 | 54.6 | 55.4 | 0.0 | 0.0 | 9.9 | 2.7 | 0.0 | 0.0 | 0.0 | 4.6 |
| Incr Delay (d2), s/veh | 1.0 | 0.0 | 0.2 | 0.5 | 0.0 | 0.0 | 0.1 | 0.3 | 0.0 | 0.0 | 0.0 | 2.1 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%), veh/ln | 3.5 | 0.0 | 0.7 | 0.4 | 0.0 | 0.0 | 0.2 | 1.8 | 0.0 | 0.0 | 0.0 | 8.7 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 59.1 | 0.0 | 54.8 | 55.8 | 0.0 | 0.0 | 10.1 | 3.0 | 0.0 | 0.0 | 0.0 | 6.7 |
| LnGrp LOS | E | A | D | E | A | A | B | A | A | A | A | A |
| Approach Vol, veh/h | 129 | | | | 12 | | | 368 | | | 971 | |
| Approach Delay, s/veh | 58.3 | | | | 55.8 | | | 3.2 | | | 6.7 | |
| Approach LOS | E | | | | E | | | A | | | A | |
| Timer - Assigned Phs | 2 | | 4 | | 6 | | 8 | | | | | |
| Phs Duration (G+Y+Rc), s | 114.1 | | 17.9 | | 114.1 | | 17.9 | | | | | |
| Change Period (Y+Rc), s | 6.0 | | 5.0 | | 6.0 | | 5.0 | | | | | |
| Max Green Setting (Gmax), s | 72.0 | | 28.0 | | 72.0 | | 16.0 | | | | | |
| Max Q Clear Time (g_c+l1), s | 29.8 | | 11.8 | | 28.8 | | 12.0 | | | | | |
| Green Ext Time (p_c), s | 5.1 | | 0.3 | | 21.1 | | 0.0 | | | | | |
| Intersection Summary | | | | | | | | | | | | |
| HCM 6th Ctrl Delay | | | 10.8 | | | | | | | | | |
| HCM 6th LOS | | | B | | | | | | | | | |
| Notes | | | | | | | | | | | | |
| User approved pedestrian interval to be less than phase max green. | | | | | | | | | | | | |

| Intersection | | | | | | |
|--------------------------|--------|--------|-------|--------|-------|------|
| Int Delay, s/veh | 0.1 | | | | | |
| Movement | WBL | WBR | NBT | NBR | SBL | SBT |
| Lane Configurations | W | B | T | T | B | T |
| Traffic Vol, veh/h | 4 | 1 | 330 | 4 | 0 | 784 |
| Future Vol, veh/h | 4 | 1 | 330 | 4 | 0 | 784 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 3 | 3 | 0 |
| Sign Control | Stop | Stop | Free | Free | Free | Free |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | 0 | - | - | - | 30 | - |
| Veh in Median Storage, # | 0 | - | 0 | - | - | 0 |
| Grade, % | 0 | - | 0 | - | - | 0 |
| Peak Hour Factor | 63 | 63 | 91 | 91 | 89 | 89 |
| Heavy Vehicles, % | 1 | 1 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 6 | 2 | 363 | 4 | 0 | 881 |
| Major/Minor | Minor1 | Major1 | | Major2 | | |
| Conflicting Flow All | 1249 | 368 | 0 | 0 | 370 | 0 |
| Stage 1 | 368 | - | - | - | - | - |
| Stage 2 | 881 | - | - | - | - | - |
| Critical Hdwy | 6.41 | 6.21 | - | - | 4.12 | - |
| Critical Hdwy Stg 1 | 5.41 | - | - | - | - | - |
| Critical Hdwy Stg 2 | 5.41 | - | - | - | - | - |
| Follow-up Hdwy | 3.509 | 3.309 | - | - | 2.218 | - |
| Pot Cap-1 Maneuver | 192 | 680 | - | - | 1189 | - |
| Stage 1 | 702 | - | - | - | - | - |
| Stage 2 | 407 | - | - | - | - | - |
| Platoon blocked, % | - | - | - | - | - | - |
| Mov Cap-1 Maneuver | 191 | 678 | - | - | 1186 | - |
| Mov Cap-2 Maneuver | 313 | - | - | - | - | - |
| Stage 1 | 700 | - | - | - | - | - |
| Stage 2 | 407 | - | - | - | - | - |
| Approach | WB | NB | SB | | | |
| HCM Control Delay, s | 15.5 | 0 | 0 | | | |
| HCM LOS | C | | | | | |
| Minor Lane/Major Mvmt | NBT | NBR | WBLn1 | SBL | SBT | |
| Capacity (veh/h) | - | - | 351 | 1186 | - | |
| HCM Lane V/C Ratio | - | - | 0.023 | - | - | |
| HCM Control Delay (s) | - | - | 15.5 | 0 | - | |
| HCM Lane LOS | - | - | C | A | - | |
| HCM 95th %tile Q(veh) | - | - | 0.1 | 0 | - | |

| Intersection | | | | | | | | | | | | |
|--------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Int Delay, s/veh | 2.5 | | | | | | | | | | | |
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations | ↖ | ↗ | | ↖ | ↗ | | ↖ | ↗ | | ↖ | ↗ | |
| Traffic Vol, veh/h | 14 | 2 | 10 | 8 | 1 | 10 | 31 | 245 | 43 | 89 | 341 | 10 |
| Future Vol, veh/h | 14 | 2 | 10 | 8 | 1 | 10 | 31 | 245 | 43 | 89 | 341 | 10 |
| Conflicting Peds, #/hr | 11 | 0 | 3 | 3 | 0 | 11 | 0 | 0 | 7 | 7 | 0 | 0 |
| Sign Control | Stop | Stop | Stop | Stop | Stop | Stop | Free | Free | Free | Free | Free | Free |
| RT Channelized | - | - | None |
| Storage Length | 40 | - | - | 40 | - | - | 100 | - | - | 100 | - | - |
| Veh in Median Storage, # | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Grade, % | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Peak Hour Factor | 65 | 65 | 65 | 68 | 80 | 68 | 88 | 88 | 88 | 90 | 90 | 90 |
| Heavy Vehicles, % | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 2 | 2 | 2 |
| Mvmt Flow | 22 | 3 | 15 | 12 | 1 | 15 | 35 | 278 | 49 | 99 | 379 | 11 |

| Major/Minor | Minor2 | Minor1 | | | Major1 | | | Major2 | | | | |
|----------------------|--------|--------|-----|-----|--------|-----|-------|--------|---|-------|---|---|
| Conflicting Flow All | 975 | 987 | 388 | 975 | 968 | 321 | 390 | 0 | 0 | 334 | 0 | 0 |
| Stage 1 | 583 | 583 | - | 380 | 380 | - | - | - | - | - | - | - |
| Stage 2 | 392 | 404 | - | 595 | 588 | - | - | - | - | - | - | - |
| Critical Hdwy | 7.1 | 6.5 | 6.2 | 7.1 | 6.5 | 6.2 | 4.11 | - | - | 4.12 | - | - |
| Critical Hdwy Stg 1 | 6.1 | 5.5 | - | 6.1 | 5.5 | - | - | - | - | - | - | - |
| Critical Hdwy Stg 2 | 6.1 | 5.5 | - | 6.1 | 5.5 | - | - | - | - | - | - | - |
| Follow-up Hdwy | 3.5 | 4 | 3.3 | 3.5 | 4 | 3.3 | 2.209 | - | - | 2.218 | - | - |
| Pot Cap-1 Maneuver | 233 | 249 | 665 | 233 | 256 | 724 | 1174 | - | - | 1225 | - | - |
| Stage 1 | 502 | 502 | - | 646 | 617 | - | - | - | - | - | - | - |
| Stage 2 | 637 | 603 | - | 494 | 499 | - | - | - | - | - | - | - |
| Platoon blocked, % | | | | | | | | - | - | - | - | - |
| Mov Cap-1 Maneuver | 206 | 220 | 663 | 205 | 227 | 712 | 1174 | - | - | 1217 | - | - |
| Mov Cap-2 Maneuver | 206 | 220 | - | 205 | 227 | - | - | - | - | - | - | - |
| Stage 1 | 487 | 461 | - | 623 | 594 | - | - | - | - | - | - | - |
| Stage 2 | 598 | 581 | - | 439 | 459 | - | - | - | - | - | - | - |

| Approach | EB | WB | | | NB | | | SB | | | | |
|-----------------------|------|------|-----|-------|-------|-------|-------|-------|-----|-----|--|--|
| HCM Control Delay, s | 19 | 16.4 | | | 0.8 | | | 1.7 | | | | |
| HCM LOS | C | C | | | | | | | | | | |
| Minor Lane/Major Mvmt | NBL | NBT | NBR | EBLn1 | EBLn2 | WBLn1 | WBLn2 | SBL | SBT | SBR | | |
| Capacity (veh/h) | 1174 | - | - | 206 | 496 | 205 | 610 | 1217 | - | - | | |
| HCM Lane V/C Ratio | 0.03 | - | - | 0.105 | 0.037 | 0.057 | 0.026 | 0.081 | - | - | | |
| HCM Control Delay (s) | 8.2 | - | - | 24.5 | 12.5 | 23.6 | 11.1 | 8.2 | - | - | | |
| HCM Lane LOS | A | - | - | C | B | C | B | A | - | - | | |
| HCM 95th %tile Q(veh) | 0.1 | - | - | 0.3 | 0.1 | 0.2 | 0.1 | 0.3 | - | - | | |

Intersection

Intersection Delay, s/veh 7.9

Intersection LOS A

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|----------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Lane Configurations | | ↔ | | | ↔ | | | ↔ | | | ↔ | |
| Traffic Vol, veh/h | 35 | 26 | 5 | 2 | 21 | 29 | 7 | 62 | 3 | 20 | 14 | 18 |
| Future Vol, veh/h | 35 | 26 | 5 | 2 | 21 | 29 | 7 | 62 | 3 | 20 | 14 | 18 |
| Peak Hour Factor | 0.77 | 0.77 | 0.77 | 0.93 | 0.93 | 0.93 | 0.71 | 0.71 | 0.71 | 0.62 | 0.62 | 0.62 |
| Heavy Vehicles, % | 6 | 6 | 6 | 8 | 8 | 8 | 0 | 0 | 0 | 10 | 10 | 10 |
| Mvmt Flow | 45 | 34 | 6 | 2 | 23 | 31 | 10 | 87 | 4 | 32 | 23 | 29 |
| Number of Lanes | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 |
| Approach | EB | | | WB | | | NB | | | SB | | |
| Opposing Approach | WB | | | EB | | | SB | | | NB | | |
| Opposing Lanes | 1 | | | 1 | | | 1 | | | 1 | | |
| Conflicting Approach Left | SB | | | NB | | | EB | | | WB | | |
| Conflicting Lanes Left | 1 | | | 1 | | | 1 | | | 1 | | |
| Conflicting Approach Right | NB | | | SB | | | WB | | | EB | | |
| Conflicting Lanes Right | 1 | | | 1 | | | 1 | | | 1 | | |
| HCM Control Delay | 8.1 | | | 7.5 | | | 7.9 | | | 7.9 | | |
| HCM LOS | A | | | A | | | A | | | A | | |

| Lane | NBLn1 | EBLn1 | WBLn1 | SBLn1 |
|------------------------|-------|-------|-------|-------|
| Vol Left, % | 10% | 53% | 4% | 38% |
| Vol Thru, % | 86% | 39% | 40% | 27% |
| Vol Right, % | 4% | 8% | 56% | 35% |
| Sign Control | Stop | Stop | Stop | Stop |
| Traffic Vol by Lane | 72 | 66 | 52 | 52 |
| LT Vol | 7 | 35 | 2 | 20 |
| Through Vol | 62 | 26 | 21 | 14 |
| RT Vol | 3 | 5 | 29 | 18 |
| Lane Flow Rate | 101 | 86 | 56 | 84 |
| Geometry Grp | 1 | 1 | 1 | 1 |
| Degree of Util (X) | 0.121 | 0.108 | 0.066 | 0.102 |
| Departure Headway (Hd) | 4.311 | 4.541 | 4.224 | 4.374 |
| Convergence, Y/N | Yes | Yes | Yes | Yes |
| Cap | 834 | 792 | 850 | 822 |
| Service Time | 2.324 | 2.554 | 2.238 | 2.386 |
| HCM Lane V/C Ratio | 0.121 | 0.109 | 0.066 | 0.102 |
| HCM Control Delay | 7.9 | 8.1 | 7.5 | 7.9 |
| HCM Lane LOS | A | A | A | A |
| HCM 95th-tile Q | 0.4 | 0.4 | 0.2 | 0.3 |

| Lane Group | EBL | EBT | EBR | WBL | WBT | NBL | NBT | NBR | SBL | SBT | SBR |
|----------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Lane Configurations | ↑ | ↑↑↑ | ↑ | ↑↑ | ↑↑↑ | ↑ | ↑ | ↑↑ | ↑ | ↑ | ↑ |
| Traffic Volume (vph) | 39 | 1701 | 76 | 306 | 1572 | 110 | 93 | 566 | 205 | 152 | 97 |
| Future Volume (vph) | 39 | 1701 | 76 | 306 | 1572 | 110 | 93 | 566 | 205 | 152 | 97 |
| Turn Type | Prot | NA | Perm | Prot | NA | pm+pt | NA | Perm | pm+pt | NA | pm+ov |
| Protected Phases | 5 | 2 | | 1 | 6 | 3 | 8 | | 7 | 4 | 5 |
| Permitted Phases | | | | | | | 8 | | 8 | 4 | |
| Detector Phase | 5 | 2 | 2 | 1 | 6 | 3 | 8 | 8 | 7 | 4 | 5 |
| Switch Phase | | | | | | | | | | | |
| Minimum Initial (s) | 4.0 | 10.0 | 10.0 | 4.0 | 10.0 | 3.0 | 5.0 | 5.0 | 3.0 | 5.0 | 4.0 |
| Minimum Split (s) | 9.5 | 29.0 | 29.0 | 9.5 | 24.0 | 9.5 | 38.0 | 38.0 | 9.5 | 34.0 | 9.5 |
| Total Split (s) | 14.0 | 47.0 | 47.0 | 26.0 | 59.0 | 23.0 | 26.0 | 26.0 | 23.0 | 26.0 | 14.0 |
| Total Split (%) | 11.5% | 38.5% | 38.5% | 21.3% | 48.4% | 18.9% | 21.3% | 21.3% | 18.9% | 21.3% | 11.5% |
| Yellow Time (s) | 3.0 | 4.0 | 4.0 | 3.0 | 4.0 | 3.0 | 4.0 | 4.0 | 3.0 | 4.0 | 3.0 |
| All-Red Time (s) | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 1.0 | 2.0 | 2.0 | 1.0 | 2.0 | 2.0 |
| Lost Time Adjust (s) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Lost Time (s) | 5.0 | 6.0 | 6.0 | 5.0 | 6.0 | 4.0 | 6.0 | 6.0 | 4.0 | 6.0 | 5.0 |
| Lead/Lag | Lead | Lag | Lag | Lead | Lag | Lead | Lag | Lag | Lead | Lag | Lead |
| Lead-Lag Optimize? | Yes |
| Recall Mode | None | C-Max | C-Max | None | C-Max | None | None | None | None | None | None |
| Act Effect Green (s) | 6.7 | 55.8 | 55.8 | 15.3 | 64.3 | 25.2 | 12.8 | 12.8 | 35.9 | 19.6 | 27.3 |
| Actuated g/C Ratio | 0.05 | 0.46 | 0.46 | 0.13 | 0.53 | 0.21 | 0.10 | 0.10 | 0.29 | 0.16 | 0.22 |
| v/c Ratio | 0.44 | 0.80 | 0.11 | 0.75 | 0.66 | 0.42 | 0.54 | 0.83 | 0.62 | 0.60 | 0.51 |

Intersection Summary

Cycle Length: 122

Actuated Cycle Length: 122

Offset: 45 (37%), Referenced to phase 2:EBT and 6:WBT, Start of Green

Natural Cycle: 100

Control Type: Actuated-Coordinated

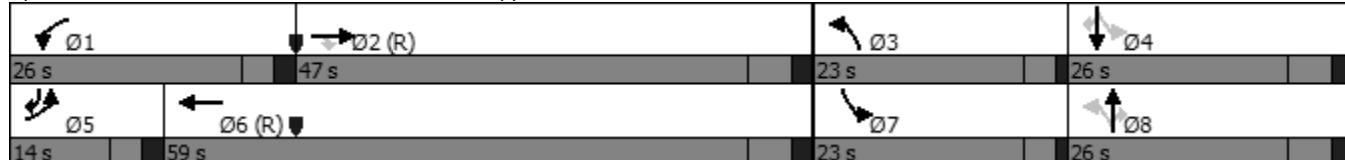
Maximum v/c Ratio: 0.83

Intersection Signal Delay: 31.1

Intersection Capacity Utilization 78.3%

Analysis Period (min) 15

Splits and Phases: 1: Potomac Street & Mississippi Avenue





| Lane Group | EBL | EBT | EBR | WBL | WBT | NBL | NBT | NBR | SBL | SBT | SBR |
|-------------------------|------|------|------|------|------|------|------|------|------|------|------|
| Lane Group Flow (vph) | 43 | 1869 | 84 | 322 | 1752 | 125 | 106 | 643 | 244 | 181 | 243 |
| v/c Ratio | 0.44 | 0.80 | 0.11 | 0.75 | 0.66 | 0.42 | 0.54 | 0.83 | 0.62 | 0.60 | 0.51 |
| Control Delay | 69.1 | 33.4 | 0.3 | 62.4 | 23.8 | 35.8 | 60.6 | 19.4 | 41.3 | 55.4 | 16.2 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay | 69.1 | 33.4 | 0.3 | 62.4 | 23.8 | 35.8 | 60.6 | 19.4 | 41.3 | 55.4 | 16.2 |
| Queue Length 50th (ft) | 33 | 460 | 0 | 128 | 358 | 74 | 81 | 44 | 155 | 133 | 52 |
| Queue Length 95th (ft) | 72 | #689 | 0 | 171 | 491 | 110 | 128 | 101 | 194 | 184 | 0 |
| Internal Link Dist (ft) | | 1218 | | | 819 | | 404 | | | 347 | |
| Turn Bay Length (ft) | 135 | | 430 | 400 | | 160 | | 200 | 50 | | 50 |
| Base Capacity (vph) | 130 | 2325 | 784 | 590 | 2655 | 419 | 308 | 904 | 406 | 332 | 502 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.33 | 0.80 | 0.11 | 0.55 | 0.66 | 0.30 | 0.34 | 0.71 | 0.60 | 0.55 | 0.48 |

Intersection Summary

95th percentile volume exceeds capacity, queue may be longer.

Queue shown is maximum after two cycles.

HCM 6th Signalized Intersection Summary
05/17/2022

1: Potomac Street & Mississippi Avenue
2025 Background - PM Peak Hour

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|----------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Lane Configurations | ↑ | ↑↑↑ | ↑ | ↑↑ | ↑↑↑ | | ↑ | ↑ | ↑↑ | ↑ | ↑ | ↑ |
| Traffic Volume (veh/h) | 39 | 1701 | 76 | 306 | 1572 | 92 | 110 | 93 | 566 | 205 | 152 | 97 |
| Future Volume (veh/h) | 39 | 1701 | 76 | 306 | 1572 | 92 | 110 | 93 | 566 | 205 | 152 | 97 |
| Initial Q (Q _b), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 0.99 | 0.99 | | 1.00 | 0.99 | | 0.99 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | No | | No | | | No | | | No | | No | |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1885 | 1885 | 1885 | 1885 | 1885 | 1885 |
| Adj Flow Rate, veh/h | 43 | 1869 | 0 | 322 | 1655 | 97 | 125 | 106 | 0 | 244 | 181 | 242 |
| Peak Hour Factor | 0.91 | 0.91 | 0.91 | 0.95 | 0.95 | 0.95 | 0.88 | 0.88 | 0.88 | 0.84 | 0.84 | 0.40 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| Cap, veh/h | 55 | 2444 | | 380 | 2749 | 161 | 268 | 198 | | 367 | 306 | 307 |
| Arrive On Green | 0.03 | 0.48 | 0.00 | 0.11 | 0.56 | 0.56 | 0.08 | 0.10 | 0.00 | 0.13 | 0.16 | 0.16 |
| Sat Flow, veh/h | 1781 | 5106 | 1585 | 3456 | 4930 | 289 | 1795 | 1885 | 2812 | 1795 | 1885 | 1586 |
| Grp Volume(v), veh/h | 43 | 1869 | 0 | 322 | 1142 | 610 | 125 | 106 | 0 | 244 | 181 | 242 |
| Grp Sat Flow(s), veh/h/ln | 1781 | 1702 | 1585 | 1728 | 1702 | 1815 | 1795 | 1885 | 1406 | 1795 | 1885 | 1586 |
| Q Serve(g_s), s | 2.9 | 36.7 | 0.0 | 11.2 | 27.3 | 27.3 | 7.5 | 6.5 | 0.0 | 14.3 | 10.9 | 17.7 |
| Cycle Q Clear(g_c), s | 2.9 | 36.7 | 0.0 | 11.2 | 27.3 | 27.3 | 7.5 | 6.5 | 0.0 | 14.3 | 10.9 | 17.7 |
| Prop In Lane | 1.00 | | 1.00 | 1.00 | | 0.16 | 1.00 | | 1.00 | 1.00 | 1.00 | 1.00 |
| Lane Grp Cap(c), veh/h | 55 | 2444 | | 380 | 1898 | 1012 | 268 | 198 | | 367 | 306 | 307 |
| V/C Ratio(X) | 0.78 | 0.76 | | 0.85 | 0.60 | 0.60 | 0.47 | 0.54 | | 0.67 | 0.59 | 0.79 |
| Avail Cap(c_a), veh/h | 131 | 2444 | | 595 | 1898 | 1012 | 409 | 309 | | 405 | 309 | 309 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(l) | 1.00 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 58.7 | 26.2 | 0.0 | 53.3 | 18.0 | 18.0 | 43.9 | 51.8 | 0.0 | 39.5 | 47.4 | 46.8 |
| Incr Delay (d2), s/veh | 8.5 | 2.3 | 0.0 | 3.9 | 1.4 | 2.7 | 0.5 | 0.8 | 0.0 | 2.6 | 2.0 | 11.7 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%), veh/ln | 1.4 | 14.6 | 0.0 | 5.0 | 10.4 | 11.4 | 3.4 | 3.1 | 0.0 | 6.6 | 5.3 | 8.0 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 67.2 | 28.5 | 0.0 | 57.2 | 19.4 | 20.6 | 44.4 | 52.6 | 0.0 | 42.0 | 49.4 | 58.5 |
| LnGrp LOS | E | C | | E | B | C | D | D | | D | D | E |
| Approach Vol, veh/h | 1912 | | | | 2074 | | | | 231 | | | 667 |
| Approach Delay, s/veh | 29.4 | | | | 25.6 | | | | 48.2 | | | 50.0 |
| Approach LOS | C | | | | C | | | | D | | | D |
| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | | | |
| Phs Duration (G+Y+Rc), s | 18.4 | 64.4 | 13.4 | 25.8 | 8.8 | 74.0 | 20.4 | 18.8 | | | | |
| Change Period (Y+Rc), s | 5.0 | 6.0 | 4.0 | 6.0 | 5.0 | 6.0 | 4.0 | 6.0 | | | | |
| Max Green Setting (Gmax), s | 21.0 | 41.0 | 19.0 | 20.0 | 9.0 | 53.0 | 19.0 | 20.0 | | | | |
| Max Q Clear Time (g_c+l1), s | 13.2 | 38.7 | 9.5 | 19.7 | 4.9 | 29.3 | 16.3 | 8.5 | | | | |
| Green Ext Time (p_c), s | 0.3 | 2.0 | 0.1 | 0.0 | 0.0 | 13.2 | 0.1 | 0.2 | | | | |

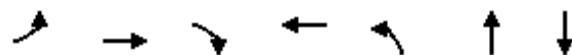
Intersection Summary

HCM 6th Ctrl Delay 31.5
HCM 6th LOS C

Notes

User approved pedestrian interval to be less than phase max green.

Unsignalized Delay for [NBR, EBR] is excluded from calculations of the approach delay and intersection delay.



| Lane Group | EBL | EBT | EBR | WBT | NBL | NBT | SBT |
|----------------------|-------|-------|-------|-------|-------|-------|-------|
| Lane Configurations | | | | | | | |
| Traffic Volume (vph) | 98 | 0 | 7 | 0 | 12 | 681 | 320 |
| Future Volume (vph) | 98 | 0 | 7 | 0 | 12 | 681 | 320 |
| Turn Type | Perm | NA | Perm | NA | Perm | NA | NA |
| Protected Phases | | 4 | | 8 | | 2 | 6 |
| Permitted Phases | 4 | | 4 | | 2 | | |
| Detector Phase | 4 | 4 | 4 | 8 | 2 | 2 | 6 |
| Switch Phase | | | | | | | |
| Minimum Initial (s) | 5.0 | 5.0 | 5.0 | 5.0 | 10.0 | 10.0 | 10.0 |
| Minimum Split (s) | 23.0 | 23.0 | 23.0 | 24.0 | 18.0 | 18.0 | 22.0 |
| Total Split (s) | 33.0 | 33.0 | 33.0 | 21.0 | 78.0 | 78.0 | 78.0 |
| Total Split (%) | 25.0% | 25.0% | 25.0% | 15.9% | 59.1% | 59.1% | 59.1% |
| Yellow Time (s) | 3.0 | 3.0 | 3.0 | 3.0 | 4.0 | 4.0 | 4.0 |
| All-Red Time (s) | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 |
| Lost Time Adjust (s) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Lost Time (s) | | 5.0 | 5.0 | 6.0 | 6.0 | 6.0 | |
| Lead/Lag | | | | | | | |
| Lead-Lag Optimize? | | | | | | | |
| Recall Mode | None | None | None | None | C-Min | C-Min | C-Min |
| Act Effect Green (s) | 45.2 | 45.2 | 5.0 | 73.8 | 73.8 | 73.8 | |
| Actuated g/C Ratio | 0.34 | 0.34 | 0.04 | 0.56 | 0.56 | 0.56 | |
| v/c Ratio | 2.21 | 0.02 | 0.03 | 0.03 | 0.79 | 0.43 | |

Intersection Summary

Cycle Length: 132

Actuated Cycle Length: 132

Offset: 38 (29%), Referenced to phase 2:NBTL and 6:SBTL, Start of Yellow

Natural Cycle: 90

Control Type: Actuated-Coordinated

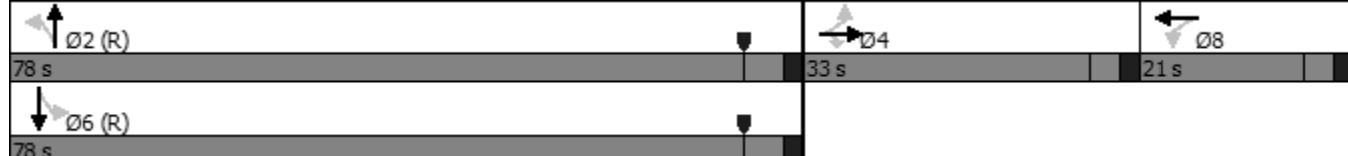
Maximum v/c Ratio: 2.21

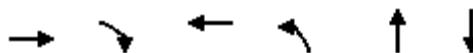
Intersection Signal Delay: 77.7

Intersection Capacity Utilization 57.5%

Analysis Period (min) 15

Splits and Phases: 2: Potomac Street & Louisiana Avenue





| Lane Group | EBT | EBR | WBT | NBL | NBT | SBT |
|-------------------------|-------|------|------|------|------|------|
| Lane Group Flow (vph) | 124 | 9 | 8 | 14 | 822 | 435 |
| v/c Ratio | 2.21 | 0.02 | 0.03 | 0.03 | 0.79 | 0.43 |
| Control Delay | 630.5 | 0.0 | 0.0 | 11.7 | 29.0 | 17.2 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay | 630.5 | 0.0 | 0.0 | 11.7 | 29.0 | 17.2 |
| Queue Length 50th (ft) | ~169 | 0 | 0 | 5 | 533 | 199 |
| Queue Length 95th (ft) | #255 | 0 | 0 | 12 | 505 | 231 |
| Internal Link Dist (ft) | 715 | | 260 | | 100 | 235 |
| Turn Bay Length (ft) | | | | 40 | | |
| Base Capacity (vph) | 56 | 569 | 411 | 429 | 1055 | 1019 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 2.21 | 0.02 | 0.02 | 0.03 | 0.78 | 0.43 |

Intersection Summary

- ~ Volume exceeds capacity, queue is theoretically infinite.
Queue shown is maximum after two cycles.
- # 95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

HCM 6th Signalized Intersection Summary
05/17/2022

2: Potomac Street & Louisiana Avenue
2025 Background - PM Peak Hour

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|----------------------------------|-------|------|------|------|-------|------|------|------|------|------|------|------|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (veh/h) | 98 | 0 | 7 | 0 | 0 | 2 | 12 | 681 | 2 | 0 | 320 | 93 |
| Future Volume (veh/h) | 98 | 0 | 7 | 0 | 0 | 2 | 12 | 681 | 2 | 0 | 320 | 93 |
| Initial Q (Q _b), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ped-Bike Adj(A_pbT) | 0.99 | | 0.99 | 1.00 | | 0.99 | 1.00 | | 0.97 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1900 | 1900 | 1900 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 |
| Adj Flow Rate, veh/h | 124 | 0 | 9 | 0 | 0 | 8 | 14 | 820 | 2 | 0 | 337 | 98 |
| Peak Hour Factor | 0.79 | 0.79 | 0.79 | 0.25 | 0.25 | 0.25 | 0.83 | 0.83 | 0.83 | 0.95 | 0.95 | 0.95 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 0 | 0 | 0 | 2 | 2 | 2 | 2 | 2 | 2 |
| Cap, veh/h | 204 | 0 | 174 | 0 | 0 | 178 | 762 | 1501 | 4 | 55 | 1120 | 326 |
| Arrive On Green | 0.11 | 0.00 | 0.11 | 0.00 | 0.00 | 0.11 | 0.81 | 0.81 | 0.81 | 0.00 | 0.81 | 0.81 |
| Sat Flow, veh/h | 1340 | 0 | 1564 | 0 | 0 | 1597 | 953 | 1865 | 5 | 666 | 1391 | 404 |
| Grp Volume(v), veh/h | 124 | 0 | 9 | 0 | 0 | 8 | 14 | 0 | 822 | 0 | 0 | 435 |
| Grp Sat Flow(s), veh/h/ln | 1340 | 0 | 1564 | 0 | 0 | 1597 | 953 | 0 | 1869 | 666 | 0 | 1795 |
| Q Serve(g_s), s | 11.5 | 0.0 | 0.7 | 0.0 | 0.0 | 0.6 | 0.5 | 0.0 | 20.2 | 0.0 | 0.0 | 8.2 |
| Cycle Q Clear(g_c), s | 12.1 | 0.0 | 0.7 | 0.0 | 0.0 | 0.6 | 8.7 | 0.0 | 20.2 | 0.0 | 0.0 | 8.2 |
| Prop In Lane | 1.00 | | 1.00 | 0.00 | | 1.00 | 1.00 | | 0.00 | 1.00 | | 0.23 |
| Lane Grp Cap(c), veh/h | 204 | 0 | 174 | 0 | 0 | 178 | 762 | 0 | 1505 | 55 | 0 | 1446 |
| V/C Ratio(X) | 0.61 | 0.00 | 0.05 | 0.00 | 0.00 | 0.04 | 0.02 | 0.00 | 0.55 | 0.00 | 0.00 | 0.30 |
| Avail Cap(c_a), veh/h | 344 | 0 | 332 | 0 | 0 | 194 | 762 | 0 | 1505 | 55 | 0 | 1446 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(l) | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 1.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 1.00 |
| Uniform Delay (d), s/veh | 57.7 | 0.0 | 52.4 | 0.0 | 0.0 | 52.4 | 4.4 | 0.0 | 4.5 | 0.0 | 0.0 | 3.3 |
| Incr Delay (d2), s/veh | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 1.4 | 0.0 | 0.0 | 0.5 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%), veh/ln | 4.2 | 0.0 | 0.3 | 0.0 | 0.0 | 0.2 | 0.1 | 0.0 | 6.9 | 0.0 | 0.0 | 2.7 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 58.8 | 0.0 | 52.4 | 0.0 | 0.0 | 52.4 | 4.5 | 0.0 | 5.9 | 0.0 | 0.0 | 3.8 |
| LnGrp LOS | E | A | D | A | A | D | A | A | A | A | A | A |
| Approach Vol, veh/h | 133 | | | | 8 | | | 836 | | | 435 | |
| Approach Delay, s/veh | 58.4 | | | | 52.4 | | | 5.9 | | | 3.8 | |
| Approach LOS | E | | | | D | | | A | | | A | |
| Timer - Assigned Phs | 2 | | 4 | | 6 | | 8 | | | | | |
| Phs Duration (G+Y+Rc), s | 112.3 | | 19.7 | | 112.3 | | 19.7 | | | | | |
| Change Period (Y+Rc), s | 6.0 | | 5.0 | | 6.0 | | 5.0 | | | | | |
| Max Green Setting (Gmax), s | 72.0 | | 28.0 | | 72.0 | | 16.0 | | | | | |
| Max Q Clear Time (g_c+l1), s | 22.2 | | 14.1 | | 10.2 | | 2.6 | | | | | |
| Green Ext Time (p_c), s | 16.8 | | 0.3 | | 6.7 | | 0.0 | | | | | |

Intersection Summary

HCM 6th Ctrl Delay 10.5
HCM 6th LOS B

Notes

User approved pedestrian interval to be less than phase max green.

Intersection

Int Delay, s/veh 0

| Movement | WBL | WBR | NBT | NBR | SBL | SBT |
|--------------------------|------|------|------|------|------|------|
| Lane Configurations | W | B | T | T | B | T |
| Traffic Vol, veh/h | 0 | 0 | 695 | 0 | 0 | 327 |
| Future Vol, veh/h | 0 | 0 | 695 | 0 | 0 | 327 |
| Conflicting Peds, #/hr | 1 | 1 | 0 | 11 | 11 | 0 |
| Sign Control | Stop | Stop | Free | Free | Free | Free |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | 0 | - | - | - | 30 | - |
| Veh in Median Storage, # | 0 | - | 0 | - | - | 0 |
| Grade, % | 0 | - | 0 | - | - | 0 |
| Peak Hour Factor | 25 | 25 | 82 | 82 | 89 | 89 |
| Heavy Vehicles, % | 0 | 0 | 2 | 2 | 3 | 3 |
| Mvmt Flow | 0 | 0 | 848 | 0 | 0 | 367 |

| Major/Minor | Minor1 | Major1 | Major2 | | |
|----------------------|--------|--------|--------|---|-------|
| Conflicting Flow All | 1227 | 860 | 0 | 0 | 859 |
| Stage 1 | 859 | - | - | - | - |
| Stage 2 | 368 | - | - | - | - |
| Critical Hdwy | 6.4 | 6.2 | - | - | 4.13 |
| Critical Hdwy Stg 1 | 5.4 | - | - | - | - |
| Critical Hdwy Stg 2 | 5.4 | - | - | - | - |
| Follow-up Hdwy | 3.5 | 3.3 | - | - | 2.227 |
| Pot Cap-1 Maneuver | 199 | 359 | - | - | 778 |
| Stage 1 | 418 | - | - | - | - |
| Stage 2 | 704 | - | - | - | - |
| Platoon blocked, % | - | - | - | - | - |
| Mov Cap-1 Maneuver | 197 | 355 | - | - | 770 |
| Mov Cap-2 Maneuver | 318 | - | - | - | - |
| Stage 1 | 414 | - | - | - | - |
| Stage 2 | 703 | - | - | - | - |

| Approach | WB | NB | SB | |
|----------------------|----|----|----|--|
| HCM Control Delay, s | 0 | 0 | 0 | |
| HCM LOS | A | | | |

| Minor Lane/Major Mvmt | NBT | NBR | WBLn1 | SBL | SBT |
|-----------------------|-----|-----|-------|-----|-----|
| Capacity (veh/h) | - | - | - | 770 | - |
| HCM Lane V/C Ratio | - | - | - | - | - |
| HCM Control Delay (s) | - | - | 0 | 0 | - |
| HCM Lane LOS | - | - | A | A | - |
| HCM 95th %tile Q(veh) | - | - | - | 0 | - |

| Intersection | | | | | | | | | | | | |
|--------------------------|--------|--------|-------|-------|--------|-------|-------|--------|------|-------|------|------|
| Int Delay, s/veh | 3.4 | | | | | | | | | | | |
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations | ↖ | ↗ | | ↖ | ↗ | | ↖ | ↗ | | ↖ | ↗ | |
| Traffic Vol, veh/h | 35 | 3 | 25 | 21 | 3 | 53 | 18 | 338 | 7 | 16 | 253 | 13 |
| Future Vol, veh/h | 35 | 3 | 25 | 21 | 3 | 53 | 18 | 338 | 7 | 16 | 253 | 13 |
| Conflicting Peds, #/hr | 3 | 0 | 2 | 2 | 0 | 3 | 1 | 0 | 3 | 3 | 0 | 1 |
| Sign Control | Stop | Stop | Stop | Stop | Stop | Stop | Free | Free | Free | Free | Free | Free |
| RT Channelized | - | - | None | - | - | None | - | - | None | - | - | None |
| Storage Length | 40 | - | - | 40 | - | - | 100 | - | - | 100 | - | - |
| Veh in Median Storage, # | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Grade, % | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Peak Hour Factor | 78 | 78 | 78 | 76 | 76 | 76 | 94 | 94 | 94 | 98 | 98 | 98 |
| Heavy Vehicles, % | 2 | 2 | 2 | 0 | 0 | 0 | 2 | 2 | 2 | 1 | 1 | 1 |
| Mvmt Flow | 45 | 4 | 32 | 28 | 4 | 70 | 19 | 360 | 7 | 16 | 258 | 13 |
| Major/Minor | Minor2 | Minor1 | | | Major1 | | | Major2 | | | | |
| Conflicting Flow All | 740 | 706 | 268 | 722 | 709 | 370 | 272 | 0 | 0 | 370 | 0 | 0 |
| Stage 1 | 298 | 298 | - | 405 | 405 | - | - | - | - | - | - | - |
| Stage 2 | 442 | 408 | - | 317 | 304 | - | - | - | - | - | - | - |
| Critical Hdwy | 7.12 | 6.52 | 6.22 | 7.1 | 6.5 | 6.2 | 4.12 | - | - | 4.11 | - | - |
| Critical Hdwy Stg 1 | 6.12 | 5.52 | - | 6.1 | 5.5 | - | - | - | - | - | - | - |
| Critical Hdwy Stg 2 | 6.12 | 5.52 | - | 6.1 | 5.5 | - | - | - | - | - | - | - |
| Follow-up Hdwy | 3.518 | 4.018 | 3.318 | 3.5 | 4 | 3.3 | 2.218 | - | - | 2.209 | - | - |
| Pot Cap-1 Maneuver | 333 | 361 | 771 | 345 | 362 | 680 | 1291 | - | - | 1194 | - | - |
| Stage 1 | 711 | 667 | - | 626 | 602 | - | - | - | - | - | - | - |
| Stage 2 | 594 | 597 | - | 698 | 667 | - | - | - | - | - | - | - |
| Platoon blocked, % | | | | | | | | - | - | - | - | - |
| Mov Cap-1 Maneuver | 289 | 349 | 769 | 319 | 350 | 676 | 1290 | - | - | 1191 | - | - |
| Mov Cap-2 Maneuver | 289 | 349 | - | 319 | 350 | - | - | - | - | - | - | - |
| Stage 1 | 700 | 658 | - | 615 | 591 | - | - | - | - | - | - | - |
| Stage 2 | 520 | 586 | - | 655 | 658 | - | - | - | - | - | - | - |
| Approach | EB | WB | | | NB | | | SB | | | | |
| HCM Control Delay, s | 15.7 | 13 | | | 0.4 | | | 0.5 | | | | |
| HCM LOS | C | B | | | | | | | | | | |
| Minor Lane/Major Mvmt | NBL | NBT | NBR | EBLn1 | EBLn2 | WBLn1 | WBLn2 | SBL | SBT | SBR | | |
| Capacity (veh/h) | 1290 | - | - | 289 | 681 | 319 | 644 | 1191 | - | - | | |
| HCM Lane V/C Ratio | 0.015 | - | - | 0.155 | 0.053 | 0.087 | 0.114 | 0.014 | - | - | | |
| HCM Control Delay (s) | 7.8 | - | - | 19.7 | 10.6 | 17.4 | 11.3 | 8.1 | - | - | | |
| HCM Lane LOS | A | - | - | C | B | C | B | A | - | - | | |
| HCM 95th %tile Q(veh) | 0 | - | - | 0.5 | 0.2 | 0.3 | 0.4 | 0 | - | - | | |

Intersection

Intersection Delay, s/veh 7.8

Intersection LOS A

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|----------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Lane Configurations | | ↖ | | | ↖ | | | ↖ | | | ↖ | |
| Traffic Vol, veh/h | 19 | 15 | 10 | 3 | 20 | 21 | 4 | 39 | 2 | 19 | 55 | 27 |
| Future Vol, veh/h | 19 | 15 | 10 | 3 | 20 | 21 | 4 | 39 | 2 | 19 | 55 | 27 |
| Peak Hour Factor | 0.65 | 0.65 | 0.65 | 0.58 | 0.58 | 0.58 | 0.87 | 0.87 | 0.87 | 0.81 | 0.81 | 0.81 |
| Heavy Vehicles, % | 5 | 5 | 5 | 7 | 7 | 7 | 0 | 0 | 0 | 2 | 2 | 2 |
| Mvmt Flow | 29 | 23 | 15 | 5 | 34 | 36 | 5 | 45 | 2 | 23 | 68 | 33 |
| Number of Lanes | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 |
| Approach | EB | | | WB | | | NB | | | SB | | |
| Opposing Approach | WB | | | EB | | | SB | | | NB | | |
| Opposing Lanes | 1 | | | 1 | | | 1 | | | 1 | | |
| Conflicting Approach Left | SB | | | NB | | | EB | | | WB | | |
| Conflicting Lanes Left | 1 | | | 1 | | | 1 | | | 1 | | |
| Conflicting Approach Right | NB | | | SB | | | WB | | | EB | | |
| Conflicting Lanes Right | 1 | | | 1 | | | 1 | | | 1 | | |
| HCM Control Delay | 7.8 | | | 7.6 | | | 7.6 | | | 7.9 | | |
| HCM LOS | A | | | A | | | A | | | A | | |

| Lane | NBLn1 | EBLn1 | WBLn1 | SBLn1 |
|------------------------|-------|-------|-------|-------|
| Vol Left, % | 9% | 43% | 7% | 19% |
| Vol Thru, % | 87% | 34% | 45% | 54% |
| Vol Right, % | 4% | 23% | 48% | 27% |
| Sign Control | Stop | Stop | Stop | Stop |
| Traffic Vol by Lane | 45 | 44 | 44 | 101 |
| LT Vol | 4 | 19 | 3 | 19 |
| Through Vol | 39 | 15 | 20 | 55 |
| RT Vol | 2 | 10 | 21 | 27 |
| Lane Flow Rate | 52 | 68 | 76 | 125 |
| Geometry Grp | 1 | 1 | 1 | 1 |
| Degree of Util (X) | 0.062 | 0.083 | 0.089 | 0.145 |
| Departure Headway (Hd) | 4.343 | 4.407 | 4.213 | 4.2 |
| Convergence, Y/N | Yes | Yes | Yes | Yes |
| Cap | 827 | 816 | 853 | 859 |
| Service Time | 2.356 | 2.418 | 2.222 | 2.2 |
| HCM Lane V/C Ratio | 0.063 | 0.083 | 0.089 | 0.146 |
| HCM Control Delay | 7.6 | 7.8 | 7.6 | 7.9 |
| HCM Lane LOS | A | A | A | A |
| HCM 95th-tile Q | 0.2 | 0.3 | 0.3 | 0.5 |

***Intersection Capacity Worksheets:
2040 Background***

| Lane Group | EBL | EBT | EBR | WBL | WBT | NBL | NBT | NBR | SBL | SBT | SBR |
|----------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Lane Configurations | ↑ | ↑↑↑ | ↑ | ↑↑ | ↑↑↑ | ↑ | ↑ | ↑↑ | ↑ | ↑ | ↑ |
| Traffic Volume (vph) | 30 | 1365 | 140 | 860 | 2000 | 70 | 75 | 340 | 175 | 110 | 80 |
| Future Volume (vph) | 30 | 1365 | 140 | 860 | 2000 | 70 | 75 | 340 | 175 | 110 | 80 |
| Turn Type | Prot | NA | Perm | Prot | NA | pm+pt | NA | Perm | pm+pt | NA | Perm |
| Protected Phases | 5 | 2 | | 1 | 6 | 3 | 8 | | 7 | 4 | |
| Permitted Phases | | | | 2 | | | 8 | | 8 | 4 | |
| Detector Phase | 5 | 2 | 2 | 1 | 6 | 3 | 8 | 8 | 7 | 4 | 4 |
| Switch Phase | | | | | | | | | | | |
| Minimum Initial (s) | 4.0 | 10.0 | 10.0 | 4.0 | 10.0 | 3.0 | 5.0 | 5.0 | 3.0 | 5.0 | 5.0 |
| Minimum Split (s) | 9.5 | 29.0 | 29.0 | 9.5 | 24.0 | 9.5 | 38.0 | 38.0 | 9.5 | 34.0 | 34.0 |
| Total Split (s) | 14.0 | 30.0 | 30.0 | 46.0 | 62.0 | 10.0 | 20.0 | 20.0 | 25.0 | 35.0 | 35.0 |
| Total Split (%) | 11.6% | 24.8% | 24.8% | 38.0% | 51.2% | 8.3% | 16.5% | 16.5% | 20.7% | 28.9% | 28.9% |
| Yellow Time (s) | 3.0 | 4.0 | 4.0 | 3.0 | 4.0 | 3.0 | 4.0 | 4.0 | 3.0 | 4.0 | 4.0 |
| All-Red Time (s) | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 1.0 | 2.0 | 2.0 | 1.0 | 2.0 | 2.0 |
| Lost Time Adjust (s) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Lost Time (s) | 5.0 | 6.0 | 6.0 | 5.0 | 6.0 | 4.0 | 6.0 | 6.0 | 4.0 | 6.0 | 6.0 |
| Lead/Lag | Lead | Lag | Lag | Lead | Lag | Lead | Lag | Lag | Lead | Lag | Lag |
| Lead-Lag Optimize? | Yes |
| Recall Mode | None | C-Max | C-Max | None | C-Max | None | None | None | None | None | None |
| Act Effct Green (s) | 6.3 | 38.3 | 38.3 | 36.1 | 71.9 | 17.5 | 9.7 | 9.7 | 31.6 | 21.6 | 21.6 |
| Actuated g/C Ratio | 0.05 | 0.32 | 0.32 | 0.30 | 0.59 | 0.14 | 0.08 | 0.08 | 0.26 | 0.18 | 0.18 |
| v/c Ratio | 0.36 | 0.92 | 0.25 | 0.90 | 0.74 | 0.36 | 0.54 | 0.66 | 0.53 | 0.35 | 0.21 |

Intersection Summary

Cycle Length: 121

Actuated Cycle Length: 121

Offset: 95 (79%), Referenced to phase 2:EBT and 6:WBT, Start of Green

Natural Cycle: 130

Control Type: Actuated-Coordinated

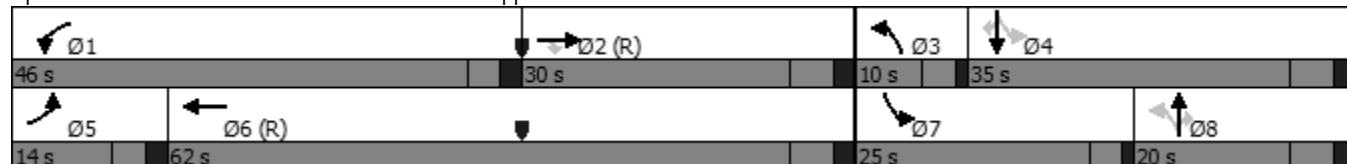
Maximum v/c Ratio: 0.92

Intersection Signal Delay: 35.5

Intersection Capacity Utilization 81.7%

Analysis Period (min) 15

Splits and Phases: 1: Potomac Street & Mississippi Avenue





| Lane Group | EBL | EBT | EBR | WBL | WBT | NBL | NBT | NBR | SBL | SBT | SBR |
|-------------------------|------|------|------|------|------|------|------|------|------|------|------|
| Lane Group Flow (vph) | 33 | 1484 | 152 | 915 | 2213 | 76 | 82 | 370 | 188 | 118 | 86 |
| v/c Ratio | 0.36 | 0.92 | 0.25 | 0.90 | 0.74 | 0.36 | 0.54 | 0.66 | 0.53 | 0.35 | 0.21 |
| Control Delay | 65.5 | 51.4 | 3.5 | 53.1 | 22.4 | 38.8 | 66.1 | 11.1 | 41.0 | 45.7 | 1.2 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay | 65.5 | 51.4 | 3.5 | 53.1 | 22.4 | 38.8 | 66.1 | 11.1 | 41.0 | 45.7 | 1.2 |
| Queue Length 50th (ft) | 25 | 412 | 0 | 350 | 471 | 46 | 63 | 0 | 122 | 83 | 0 |
| Queue Length 95th (ft) | 59 | #680 | 31 | 411 | #721 | 78 | 112 | 49 | 171 | 129 | 0 |
| Internal Link Dist (ft) | | 1218 | | | 819 | | 404 | | | 347 | |
| Turn Bay Length (ft) | 135 | | 430 | 400 | | 160 | | 200 | 50 | | 50 |
| Base Capacity (vph) | 131 | 1607 | 620 | 1152 | 2973 | 212 | 217 | 647 | 393 | 450 | 494 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.25 | 0.92 | 0.25 | 0.79 | 0.74 | 0.36 | 0.38 | 0.57 | 0.48 | 0.26 | 0.17 |

Intersection Summary

95th percentile volume exceeds capacity, queue may be longer.

Queue shown is maximum after two cycles.

HCM 6th Signalized Intersection Summary
05/17/2022

1: Potomac Street & Mississippi Avenue
2040 Background - AM Peak Hour

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|----------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Lane Configurations | ↑ | ↑↑↑ | ↑ | ↑↑ | ↑↑↑ | | ↑ | ↑ | ↑↑ | ↑ | ↑ | ↑ |
| Traffic Volume (veh/h) | 30 | 1365 | 140 | 860 | 2000 | 80 | 70 | 75 | 340 | 175 | 110 | 80 |
| Future Volume (veh/h) | 30 | 1365 | 140 | 860 | 2000 | 80 | 70 | 75 | 340 | 175 | 110 | 80 |
| Initial Q (Q _b), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 0.99 | | 1.00 | 0.99 | | 0.99 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | No | | | No | | | No | | | No | | |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1856 | 1856 | 1885 | 1885 | 1885 | 1885 | 1885 | 1885 | 1885 |
| Adj Flow Rate, veh/h | 33 | 1484 | 0 | 915 | 2128 | 85 | 76 | 82 | 0 | 188 | 118 | 86 |
| Peak Hour Factor | 0.92 | 0.92 | 0.92 | 0.94 | 0.94 | 0.94 | 0.92 | 0.92 | 0.92 | 0.93 | 0.93 | 0.93 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 3 | 3 | 3 | 1 | 1 | 1 | 1 | 1 | 1 |
| Cap, veh/h | 42 | 1861 | | 976 | 3127 | 124 | 225 | 123 | | 291 | 241 | 203 |
| Arrive On Green | 0.02 | 0.36 | 0.00 | 0.28 | 0.63 | 0.63 | 0.05 | 0.07 | 0.00 | 0.11 | 0.13 | 0.13 |
| Sat Flow, veh/h | 1781 | 5106 | 1585 | 3428 | 4997 | 199 | 1795 | 1885 | 2812 | 1795 | 1885 | 1586 |
| Grp Volume(v), veh/h | 33 | 1484 | 0 | 915 | 1436 | 777 | 76 | 82 | 0 | 188 | 118 | 86 |
| Grp Sat Flow(s), veh/h/ln | 1781 | 1702 | 1585 | 1714 | 1689 | 1819 | 1795 | 1885 | 1406 | 1795 | 1885 | 1586 |
| Q Serve(g_s), s | 2.2 | 31.5 | 0.0 | 31.5 | 33.5 | 33.8 | 4.7 | 5.1 | 0.0 | 11.4 | 7.0 | 6.1 |
| Cycle Q Clear(g_c), s | 2.2 | 31.5 | 0.0 | 31.5 | 33.5 | 33.8 | 4.7 | 5.1 | 0.0 | 11.4 | 7.0 | 6.1 |
| Prop In Lane | 1.00 | | 1.00 | 1.00 | | 0.11 | 1.00 | | 1.00 | 1.00 | 1.00 | 1.00 |
| Lane Grp Cap(c), veh/h | 42 | 1861 | | 976 | 2113 | 1138 | 225 | 123 | | 291 | 241 | 203 |
| V/C Ratio(X) | 0.79 | 0.80 | | 0.94 | 0.68 | 0.68 | 0.34 | 0.67 | | 0.65 | 0.49 | 0.42 |
| Avail Cap(c_a), veh/h | 132 | 1861 | | 1162 | 2113 | 1138 | 225 | 218 | | 401 | 452 | 380 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(l) | 1.00 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 58.8 | 34.5 | 0.0 | 42.2 | 14.7 | 14.8 | 49.5 | 55.3 | 0.0 | 44.2 | 49.1 | 48.7 |
| Incr Delay (d2), s/veh | 11.5 | 3.7 | 0.0 | 11.8 | 1.8 | 3.3 | 0.3 | 2.3 | 0.0 | 0.9 | 0.6 | 0.5 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%), veh/ln | 1.1 | 13.2 | 0.0 | 14.5 | 12.1 | 13.6 | 2.1 | 2.5 | 0.0 | 5.2 | 3.4 | 2.4 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 70.3 | 38.1 | 0.0 | 54.1 | 16.5 | 18.1 | 49.8 | 57.6 | 0.0 | 45.1 | 49.7 | 49.2 |
| LnGrp LOS | E | D | | D | B | B | D | E | | D | D | D |
| Approach Vol, veh/h | 1517 | | | | 3128 | | | 158 | | | 392 | |
| Approach Delay, s/veh | 38.8 | | | | 27.9 | | | 53.8 | | | 47.4 | |
| Approach LOS | | D | | | C | | | D | | | D | |
| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | | | |
| Phs Duration (G+Y+Rc), s | 39.5 | 50.1 | 10.0 | 21.4 | 7.8 | 81.7 | 17.5 | 13.9 | | | | |
| Change Period (Y+Rc), s | 5.0 | 6.0 | 4.0 | 6.0 | 5.0 | 6.0 | 4.0 | 6.0 | | | | |
| Max Green Setting (Gmax), s | 41.0 | 24.0 | 6.0 | 29.0 | 9.0 | 56.0 | 21.0 | 14.0 | | | | |
| Max Q Clear Time (g_c+l1), s | 33.5 | 33.5 | 6.7 | 9.0 | 4.2 | 35.8 | 13.4 | 7.1 | | | | |
| Green Ext Time (p_c), s | 0.9 | 0.0 | 0.0 | 0.5 | 0.0 | 15.1 | 0.2 | 0.1 | | | | |

Intersection Summary

HCM 6th Ctrl Delay 33.3
HCM 6th LOS C

Notes

User approved pedestrian interval to be less than phase max green.

Unsignalized Delay for [NBR, EBR] is excluded from calculations of the approach delay and intersection delay.



| Lane Group | EBL | EBT | EBR | WBL | WBT | NBL | NBT | SBT |
|----------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| Lane Configurations | | | | | | | | |
| Traffic Volume (vph) | 105 | 0 | 25 | 5 | 1 | 10 | 345 | 815 |
| Future Volume (vph) | 105 | 0 | 25 | 5 | 1 | 10 | 345 | 815 |
| Turn Type | Perm | NA | Perm | Perm | NA | Perm | NA | NA |
| Protected Phases | | | | | 8 | | 2 | 6 |
| Permitted Phases | 4 | | | 4 | 8 | | 2 | |
| Detector Phase | 4 | 4 | 4 | 8 | 8 | 2 | 2 | 6 |
| Switch Phase | | | | | | | | |
| Minimum Initial (s) | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 10.0 | 10.0 | 10.0 |
| Minimum Split (s) | 23.0 | 23.0 | 23.0 | 24.0 | 24.0 | 18.0 | 18.0 | 22.0 |
| Total Split (s) | 33.0 | 33.0 | 33.0 | 21.0 | 21.0 | 78.0 | 78.0 | 78.0 |
| Total Split (%) | 25.0% | 25.0% | 25.0% | 15.9% | 15.9% | 59.1% | 59.1% | 59.1% |
| Yellow Time (s) | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 4.0 | 4.0 | 4.0 |
| All-Red Time (s) | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 |
| Lost Time Adjust (s) | | | | | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Lost Time (s) | | | | 5.0 | 5.0 | 6.0 | 6.0 | 6.0 |
| Lead/Lag | | | | | | | | |
| Lead-Lag Optimize? | | | | | | | | |
| Recall Mode | None | None | None | None | None | C-Min | C-Min | C-Min |
| Act Effect Green (s) | 14.4 | 14.4 | | | 6.8 | 101.3 | 101.3 | 101.3 |
| Actuated g/C Ratio | 0.11 | 0.11 | | | 0.05 | 0.77 | 0.77 | 0.77 |
| v/c Ratio | 0.70 | 0.12 | | | 0.19 | 0.04 | 0.26 | 0.70 |

Intersection Summary

Cycle Length: 132

Actuated Cycle Length: 132

Offset: 38 (29%), Referenced to phase 2:NBTL and 6:SBTL, Start of Yellow

Natural Cycle: 110

Control Type: Actuated-Coordinated

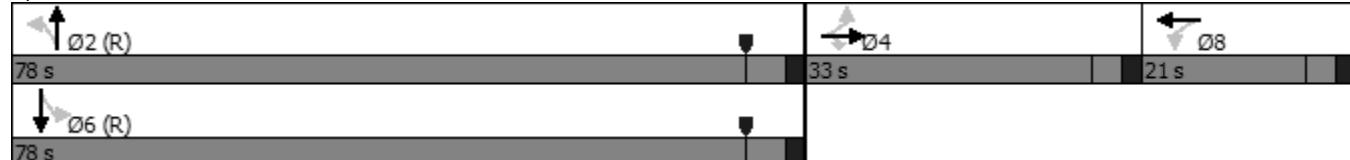
Maximum v/c Ratio: 0.70

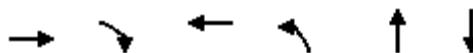
Intersection Signal Delay: 18.2

Intersection Capacity Utilization 71.2%

Analysis Period (min) 15

Splits and Phases: 2: Potomac Street & Louisiana Avenue





| Lane Group | EBT | EBR | WBT | NBL | NBT | SBT |
|-------------------------|------|------|------|------|------|------|
| Lane Group Flow (vph) | 113 | 27 | 18 | 11 | 375 | 978 |
| v/c Ratio | 0.70 | 0.12 | 0.19 | 0.04 | 0.26 | 0.70 |
| Control Delay | 77.9 | 1.1 | 63.5 | 7.0 | 6.4 | 13.6 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.0 |
| Total Delay | 77.9 | 1.1 | 63.5 | 7.0 | 6.4 | 15.6 |
| Queue Length 50th (ft) | 95 | 0 | 15 | 2 | 63 | 281 |
| Queue Length 95th (ft) | 154 | 0 | 15 | 11 | 181 | 795 |
| Internal Link Dist (ft) | 715 | | 260 | | 100 | 235 |
| Turn Bay Length (ft) | | | | 40 | | |
| Base Capacity (vph) | 316 | 375 | 230 | 290 | 1443 | 1406 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 272 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.36 | 0.07 | 0.08 | 0.04 | 0.26 | 0.86 |

Intersection Summary

HCM 6th Signalized Intersection Summary
05/17/2022

2: Potomac Street & Louisiana Avenue
2040 Background - AM Peak Hour

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|----------------------------------|-------|------|------|------|-------|------|------|------|------|------|------|------|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (veh/h) | 105 | 0 | 25 | 5 | 1 | 0 | 10 | 345 | 0 | 0 | 815 | 85 |
| Future Volume (veh/h) | 105 | 0 | 25 | 5 | 1 | 0 | 10 | 345 | 0 | 0 | 815 | 85 |
| Initial Q (Q _b), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ped-Bike Adj(A_pbT) | 0.99 | | 0.98 | 0.99 | | | 1.00 | 1.00 | | 1.00 | 1.00 | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | No | | | No | | | No | | | No | | |
| Adj Sat Flow, veh/h/ln | 1811 | 1811 | 1811 | 1900 | 1900 | 1900 | 1885 | 1885 | 1885 | 1870 | 1870 | 1870 |
| Adj Flow Rate, veh/h | 113 | 0 | 27 | 15 | 3 | 0 | 11 | 375 | 0 | 0 | 886 | 92 |
| Peak Hour Factor | 0.93 | 0.93 | 0.93 | 0.33 | 0.33 | 0.33 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 |
| Percent Heavy Veh, % | 6 | 6 | 6 | 0 | 0 | 0 | 1 | 1 | 1 | 2 | 2 | 2 |
| Cap, veh/h | 202 | 0 | 150 | 82 | 12 | 0 | 408 | 1540 | 0 | 55 | 1361 | 141 |
| Arrive On Green | 0.10 | 0.00 | 0.10 | 0.10 | 0.10 | 0.00 | 0.82 | 0.82 | 0.00 | 0.00 | 0.82 | 0.82 |
| Sat Flow, veh/h | 1479 | 0 | 1504 | 323 | 122 | 0 | 580 | 1885 | 0 | 1008 | 1666 | 173 |
| Grp Volume(v), veh/h | 113 | 0 | 27 | 18 | 0 | 0 | 11 | 375 | 0 | 0 | 0 | 978 |
| Grp Sat Flow(s), veh/h/ln | 1479 | 0 | 1504 | 446 | 0 | 0 | 580 | 1885 | 0 | 1008 | 0 | 1838 |
| Q Serve(g_s), s | 0.0 | 0.0 | 2.2 | 1.1 | 0.0 | 0.0 | 1.0 | 6.0 | 0.0 | 0.0 | 0.0 | 27.4 |
| Cycle Q Clear(g_c), s | 9.6 | 0.0 | 2.2 | 10.7 | 0.0 | 0.0 | 28.4 | 6.0 | 0.0 | 0.0 | 0.0 | 27.4 |
| Prop In Lane | 1.00 | | 1.00 | 0.83 | | | 0.00 | 1.00 | | 0.00 | 1.00 | 0.09 |
| Lane Grp Cap(c), veh/h | 202 | 0 | 150 | 94 | 0 | 0 | 408 | 1540 | 0 | 55 | 0 | 1502 |
| V/C Ratio(X) | 0.56 | 0.00 | 0.18 | 0.19 | 0.00 | 0.00 | 0.03 | 0.24 | 0.00 | 0.00 | 0.00 | 0.65 |
| Avail Cap(c_a), veh/h | 355 | 0 | 319 | 126 | 0 | 0 | 408 | 1540 | 0 | 55 | 0 | 1502 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(l) | 1.00 | 0.00 | 1.00 | 1.00 | 0.00 | 0.00 | 1.00 | 1.00 | 0.00 | 0.00 | 0.00 | 1.00 |
| Uniform Delay (d), s/veh | 57.8 | 0.0 | 54.5 | 59.9 | 0.0 | 0.0 | 10.3 | 2.8 | 0.0 | 0.0 | 0.0 | 4.7 |
| Incr Delay (d2), s/veh | 0.9 | 0.0 | 0.2 | 0.7 | 0.0 | 0.0 | 0.1 | 0.4 | 0.0 | 0.0 | 0.0 | 2.2 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%), veh/ln | 3.8 | 0.0 | 0.8 | 0.6 | 0.0 | 0.0 | 0.1 | 2.0 | 0.0 | 0.0 | 0.0 | 8.9 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 58.8 | 0.0 | 54.7 | 60.6 | 0.0 | 0.0 | 10.4 | 3.1 | 0.0 | 0.0 | 0.0 | 6.9 |
| LnGrp LOS | E | A | D | E | A | A | B | A | A | A | A | A |
| Approach Vol, veh/h | 140 | | | | 18 | | | 386 | | | 978 | |
| Approach Delay, s/veh | 58.0 | | | | 60.6 | | | 3.3 | | | 6.9 | |
| Approach LOS | E | | | | E | | | A | | | A | |
| Timer - Assigned Phs | 2 | | 4 | | 6 | | 8 | | | | | |
| Phs Duration (G+Y+Rc), s | 113.8 | | 18.2 | | 113.8 | | 18.2 | | | | | |
| Change Period (Y+Rc), s | 6.0 | | 5.0 | | 6.0 | | 5.0 | | | | | |
| Max Green Setting (Gmax), s | 72.0 | | 28.0 | | 72.0 | | 16.0 | | | | | |
| Max Q Clear Time (g_c+l1), s | 30.4 | | 11.6 | | 29.4 | | 12.7 | | | | | |
| Green Ext Time (p_c), s | 5.4 | | 0.4 | | 21.2 | | 0.0 | | | | | |

Intersection Summary

HCM 6th Ctrl Delay 11.3
HCM 6th LOS B

Notes

User approved pedestrian interval to be less than phase max green.

| Intersection | | | | | | |
|--------------------------|--------|--------|-------|--------|-------|------|
| Int Delay, s/veh | 0.1 | | | | | |
| Movement | WBL | WBR | NBT | NBR | SBL | SBT |
| Lane Configurations | W | B | T | T | B | T |
| Traffic Vol, veh/h | 5 | 1 | 355 | 5 | 0 | 845 |
| Future Vol, veh/h | 5 | 1 | 355 | 5 | 0 | 845 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 3 | 3 | 0 |
| Sign Control | Stop | Stop | Free | Free | Free | Free |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | 0 | - | - | - | 30 | - |
| Veh in Median Storage, # | 0 | - | 0 | - | - | 0 |
| Grade, % | 0 | - | 0 | - | - | 0 |
| Peak Hour Factor | 63 | 63 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 1 | 1 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 8 | 2 | 386 | 5 | 0 | 918 |
| Major/Minor | Minor1 | Major1 | | Major2 | | |
| Conflicting Flow All | 1310 | 392 | 0 | 0 | 394 | 0 |
| Stage 1 | 392 | - | - | - | - | - |
| Stage 2 | 918 | - | - | - | - | - |
| Critical Hdwy | 6.41 | 6.21 | - | - | 4.12 | - |
| Critical Hdwy Stg 1 | 5.41 | - | - | - | - | - |
| Critical Hdwy Stg 2 | 5.41 | - | - | - | - | - |
| Follow-up Hdwy | 3.509 | 3.309 | - | - | 2.218 | - |
| Pot Cap-1 Maneuver | 176 | 659 | - | - | 1165 | - |
| Stage 1 | 685 | - | - | - | - | - |
| Stage 2 | 391 | - | - | - | - | - |
| Platoon blocked, % | - | - | - | - | - | - |
| Mov Cap-1 Maneuver | 175 | 657 | - | - | 1162 | - |
| Mov Cap-2 Maneuver | 298 | - | - | - | - | - |
| Stage 1 | 683 | - | - | - | - | - |
| Stage 2 | 391 | - | - | - | - | - |
| Approach | WB | NB | | SB | | |
| HCM Control Delay, s | 16.3 | 0 | | 0 | | |
| HCM LOS | C | | | | | |
| Minor Lane/Major Mvmt | NBT | NBR | WBLn1 | SBL | SBT | |
| Capacity (veh/h) | - | - | 328 | 1162 | - | |
| HCM Lane V/C Ratio | - | - | 0.029 | - | - | |
| HCM Control Delay (s) | - | - | 16.3 | 0 | - | |
| HCM Lane LOS | - | - | C | A | - | |
| HCM 95th %tile Q(veh) | - | - | 0.1 | 0 | - | |

| Intersection | | | | | | | | | | | | |
|--------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Int Delay, s/veh | 2.7 | | | | | | | | | | | |
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations | ↖ | ↗ | | ↖ | ↗ | | ↖ | ↗ | | ↖ | ↗ | |
| Traffic Vol, veh/h | 15 | 2 | 10 | 10 | 1 | 10 | 35 | 265 | 45 | 95 | 370 | 10 |
| Future Vol, veh/h | 15 | 2 | 10 | 10 | 1 | 10 | 35 | 265 | 45 | 95 | 370 | 10 |
| Conflicting Peds, #/hr | 11 | 0 | 3 | 3 | 0 | 11 | 0 | 0 | 7 | 7 | 0 | 0 |
| Sign Control | Stop | Stop | Stop | Stop | Stop | Stop | Free | Free | Free | Free | Free | Free |
| RT Channelized | - | - | None |
| Storage Length | 40 | - | - | 40 | - | - | 100 | - | - | 100 | - | - |
| Veh in Median Storage, # | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Grade, % | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Peak Hour Factor | 65 | 65 | 65 | 68 | 80 | 68 | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 2 | 2 | 2 |
| Mvmt Flow | 23 | 3 | 15 | 15 | 1 | 15 | 38 | 288 | 49 | 103 | 402 | 11 |

| Major/Minor | Minor2 | Minor1 | | | Major1 | | | Major2 | | | | |
|----------------------|--------|--------|-----|------|--------|-----|-------|--------|---|-------|---|---|
| Conflicting Flow All | 1022 | 1034 | 411 | 1022 | 1015 | 331 | 413 | 0 | 0 | 344 | 0 | 0 |
| Stage 1 | 614 | 614 | - | 396 | 396 | - | - | - | - | - | - | - |
| Stage 2 | 408 | 420 | - | 626 | 619 | - | - | - | - | - | - | - |
| Critical Hdwy | 7.1 | 6.5 | 6.2 | 7.1 | 6.5 | 6.2 | 4.11 | - | - | 4.12 | - | - |
| Critical Hdwy Stg 1 | 6.1 | 5.5 | - | 6.1 | 5.5 | - | - | - | - | - | - | - |
| Critical Hdwy Stg 2 | 6.1 | 5.5 | - | 6.1 | 5.5 | - | - | - | - | - | - | - |
| Follow-up Hdwy | 3.5 | 4 | 3.3 | 3.5 | 4 | 3.3 | 2.209 | - | - | 2.218 | - | - |
| Pot Cap-1 Maneuver | 216 | 234 | 645 | 216 | 240 | 715 | 1151 | - | - | 1215 | - | - |
| Stage 1 | 483 | 486 | - | 633 | 607 | - | - | - | - | - | - | - |
| Stage 2 | 624 | 593 | - | 475 | 483 | - | - | - | - | - | - | - |
| Platoon blocked, % | | | | | | | | - | - | - | - | - |
| Mov Cap-1 Maneuver | 190 | 206 | 643 | 188 | 211 | 703 | 1151 | - | - | 1207 | - | - |
| Mov Cap-2 Maneuver | 190 | 206 | - | 188 | 211 | - | - | - | - | - | - | - |
| Stage 1 | 467 | 445 | - | 608 | 583 | - | - | - | - | - | - | - |
| Stage 2 | 583 | 569 | - | 420 | 442 | - | - | - | - | - | - | - |

| Approach | EB | WB | | | NB | | | SB | | | |
|-----------------------|-------|------|-----|-------|-------|-------|-------|-------|-----|-----|--|
| HCM Control Delay, s | 20.5 | 18.2 | | | 0.8 | | | 1.7 | | | |
| HCM LOS | C | C | | | | | | | | | |
| <hr/> | | | | | | | | | | | |
| Minor Lane/Major Mvmt | NBL | NBT | NBR | EBLn1 | EBLn2 | WBLn1 | WBLn2 | SBL | SBT | SBR | |
| Capacity (veh/h) | 1151 | - | - | 190 | 475 | 188 | 594 | 1207 | - | - | |
| HCM Lane V/C Ratio | 0.033 | - | - | 0.121 | 0.039 | 0.078 | 0.027 | 0.086 | - | - | |
| HCM Control Delay (s) | 8.2 | - | - | 26.6 | 12.9 | 25.8 | 11.2 | 8.3 | - | - | |
| HCM Lane LOS | A | - | - | D | B | D | B | A | - | - | |
| HCM 95th %tile Q(veh) | 0.1 | - | - | 0.4 | 0.1 | 0.3 | 0.1 | 0.3 | - | - | |

Intersection

Intersection Delay, s/veh 7.8

Intersection LOS A

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|----------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Lane Configurations | | ↔ | | | ↔ | | | ↔ | | | ↔ | |
| Traffic Vol, veh/h | 35 | 30 | 5 | 2 | 25 | 30 | 10 | 65 | 5 | 20 | 15 | 20 |
| Future Vol, veh/h | 35 | 30 | 5 | 2 | 25 | 30 | 10 | 65 | 5 | 20 | 15 | 20 |
| Peak Hour Factor | 0.88 | 0.88 | 0.88 | 0.93 | 0.93 | 0.93 | 0.88 | 0.88 | 0.88 | 0.88 | 0.88 | 0.88 |
| Heavy Vehicles, % | 6 | 6 | 6 | 8 | 8 | 8 | 0 | 0 | 0 | 10 | 10 | 10 |
| Mvmt Flow | 40 | 34 | 6 | 2 | 27 | 32 | 11 | 74 | 6 | 23 | 17 | 23 |
| Number of Lanes | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 |
| Approach | EB | | | WB | | | NB | | | SB | | |
| Opposing Approach | WB | | | EB | | | SB | | | NB | | |
| Opposing Lanes | 1 | | | 1 | | | 1 | | | 1 | | |
| Conflicting Approach Left | SB | | | NB | | | EB | | | WB | | |
| Conflicting Lanes Left | 1 | | | 1 | | | 1 | | | 1 | | |
| Conflicting Approach Right | NB | | | SB | | | WB | | | EB | | |
| Conflicting Lanes Right | 1 | | | 1 | | | 1 | | | 1 | | |
| HCM Control Delay | 8 | | | 7.5 | | | 7.8 | | | 7.7 | | |
| HCM LOS | A | | | A | | | A | | | A | | |

| Lane | NBLn1 | EBLn1 | WBLn1 | SBLn1 |
|------------------------|-------|-------|-------|-------|
| Vol Left, % | 12% | 50% | 4% | 36% |
| Vol Thru, % | 81% | 43% | 44% | 27% |
| Vol Right, % | 6% | 7% | 53% | 36% |
| Sign Control | Stop | Stop | Stop | Stop |
| Traffic Vol by Lane | 80 | 70 | 57 | 55 |
| LT Vol | 10 | 35 | 2 | 20 |
| Through Vol | 65 | 30 | 25 | 15 |
| RT Vol | 5 | 5 | 30 | 20 |
| Lane Flow Rate | 91 | 80 | 61 | 62 |
| Geometry Grp | 1 | 1 | 1 | 1 |
| Degree of Util (X) | 0.108 | 0.099 | 0.071 | 0.075 |
| Departure Headway (Hd) | 4.28 | 4.474 | 4.163 | 4.342 |
| Convergence, Y/N | Yes | Yes | Yes | Yes |
| Cap | 842 | 805 | 864 | 828 |
| Service Time | 2.284 | 2.478 | 2.171 | 2.352 |
| HCM Lane V/C Ratio | 0.108 | 0.099 | 0.071 | 0.075 |
| HCM Control Delay | 7.8 | 8 | 7.5 | 7.7 |
| HCM Lane LOS | A | A | A | A |
| HCM 95th-tile Q | 0.4 | 0.3 | 0.2 | 0.2 |

| Lane Group | EBL | EBT | EBR | WBL | WBT | NBL | NBT | NBR | SBL | SBT | SBR |
|----------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Lane Configurations | ↑ | ↑↑↑ | ↑ | ↑↑ | ↑↑↑ | ↑ | ↑ | ↑↑ | ↑ | ↑ | ↑ |
| Traffic Volume (vph) | 40 | 1975 | 80 | 330 | 1825 | 120 | 100 | 610 | 220 | 165 | 105 |
| Future Volume (vph) | 40 | 1975 | 80 | 330 | 1825 | 120 | 100 | 610 | 220 | 165 | 105 |
| Turn Type | Prot | NA | Perm | Prot | NA | pm+pt | NA | Perm | pm+pt | NA | pm+ov |
| Protected Phases | 5 | 2 | | 1 | 6 | 3 | 8 | | 7 | 4 | 5 |
| Permitted Phases | | | | | | | 8 | | 8 | 4 | |
| Detector Phase | 5 | 2 | 2 | 1 | 6 | 3 | 8 | 8 | 7 | 4 | 5 |
| Switch Phase | | | | | | | | | | | |
| Minimum Initial (s) | 4.0 | 10.0 | 10.0 | 4.0 | 10.0 | 3.0 | 5.0 | 5.0 | 3.0 | 5.0 | 4.0 |
| Minimum Split (s) | 9.5 | 29.0 | 29.0 | 9.5 | 24.0 | 9.5 | 38.0 | 38.0 | 9.5 | 34.0 | 9.5 |
| Total Split (s) | 14.0 | 47.0 | 47.0 | 26.0 | 59.0 | 23.0 | 26.0 | 26.0 | 23.0 | 26.0 | 14.0 |
| Total Split (%) | 11.5% | 38.5% | 38.5% | 21.3% | 48.4% | 18.9% | 21.3% | 21.3% | 18.9% | 21.3% | 11.5% |
| Yellow Time (s) | 3.0 | 4.0 | 4.0 | 3.0 | 4.0 | 3.0 | 4.0 | 4.0 | 3.0 | 4.0 | 3.0 |
| All-Red Time (s) | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 1.0 | 2.0 | 2.0 | 1.0 | 2.0 | 2.0 |
| Lost Time Adjust (s) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Lost Time (s) | 5.0 | 6.0 | 6.0 | 5.0 | 6.0 | 4.0 | 6.0 | 6.0 | 4.0 | 6.0 | 5.0 |
| Lead/Lag | Lead | Lag | Lag | Lead | Lag | Lead | Lag | Lag | Lead | Lag | Lead |
| Lead-Lag Optimize? | Yes |
| Recall Mode | None | C-Max | C-Max | None | C-Max | None | None | None | None | None | None |
| Act Effct Green (s) | 6.7 | 54.9 | 54.9 | 16.2 | 64.3 | 25.7 | 13.1 | 13.1 | 36.0 | 19.3 | 27.1 |
| Actuated g/C Ratio | 0.05 | 0.45 | 0.45 | 0.13 | 0.53 | 0.21 | 0.11 | 0.11 | 0.30 | 0.16 | 0.22 |
| v/c Ratio | 0.44 | 0.94 | 0.11 | 0.76 | 0.76 | 0.43 | 0.54 | 0.85 | 0.61 | 0.60 | 0.26 |

Intersection Summary

Cycle Length: 122

Actuated Cycle Length: 122

Offset: 45 (37%), Referenced to phase 2:EBT and 6:WBT, Start of Green

Natural Cycle: 120

Control Type: Actuated-Coordinated

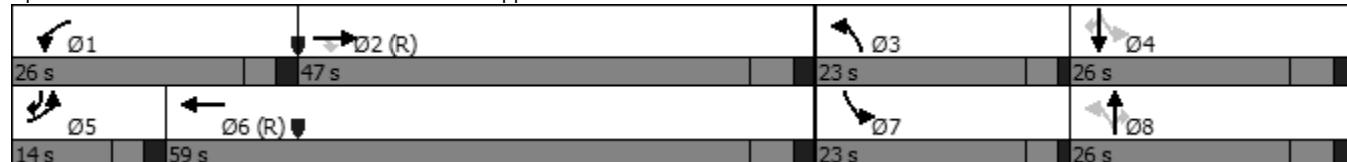
Maximum v/c Ratio: 0.94

Intersection Signal Delay: 35.5

Intersection Capacity Utilization 85.8%

Analysis Period (min) 15

Splits and Phases: 1: Potomac Street & Mississippi Avenue





| Lane Group | EBL | EBT | EBR | WBL | WBT | NBL | NBT | NBR | SBL | SBT | SBR |
|-------------------------|------|------|------|------|------|------|------|------|------|------|------|
| Lane Group Flow (vph) | 43 | 2147 | 87 | 347 | 2026 | 130 | 109 | 663 | 239 | 179 | 114 |
| v/c Ratio | 0.44 | 0.94 | 0.11 | 0.76 | 0.76 | 0.43 | 0.54 | 0.85 | 0.61 | 0.60 | 0.26 |
| Control Delay | 69.1 | 42.4 | 0.3 | 62.2 | 26.8 | 35.9 | 60.4 | 21.4 | 40.9 | 55.6 | 8.0 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay | 69.1 | 42.4 | 0.3 | 62.2 | 26.8 | 35.9 | 60.4 | 21.4 | 40.9 | 55.6 | 8.0 |
| Queue Length 50th (ft) | 33 | 585 | 0 | 137 | 452 | 77 | 83 | 52 | 152 | 132 | 4 |
| Queue Length 95th (ft) | 72 | #867 | 1 | 181 | 616 | 117 | 134 | 122 | 206 | 199 | 45 |
| Internal Link Dist (ft) | | 1218 | | | 819 | | 404 | | | 347 | |
| Turn Bay Length (ft) | 135 | | 430 | 400 | | 160 | | 200 | 50 | | 50 |
| Base Capacity (vph) | 130 | 2286 | 773 | 590 | 2653 | 421 | 308 | 905 | 405 | 331 | 461 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.33 | 0.94 | 0.11 | 0.59 | 0.76 | 0.31 | 0.35 | 0.73 | 0.59 | 0.54 | 0.25 |

Intersection Summary

95th percentile volume exceeds capacity, queue may be longer.

Queue shown is maximum after two cycles.

HCM 6th Signalized Intersection Summary
05/17/2022

1: Potomac Street & Mississippi Avenue
2040 Background - PM Peak Hour

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|----------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Lane Configurations | ↑ | ↑↑↑ | ↑ | ↑↑ | ↑↑↑ | | ↑ | ↑ | ↑↑ | ↑ | ↑ | ↑ |
| Traffic Volume (veh/h) | 40 | 1975 | 80 | 330 | 1825 | 100 | 120 | 100 | 610 | 220 | 165 | 105 |
| Future Volume (veh/h) | 40 | 1975 | 80 | 330 | 1825 | 100 | 120 | 100 | 610 | 220 | 165 | 105 |
| Initial Q (Q _b), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ped-Bike Adj(A_pbT) | 1.00 | | | 1.00 | 1.00 | | 0.99 | 0.99 | | 1.00 | 0.99 | 0.99 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | No | | | No | | | No | | | No | | |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1885 | 1885 | 1885 | 1885 | 1885 | 1885 |
| Adj Flow Rate, veh/h | 43 | 2147 | 0 | 347 | 1921 | 105 | 130 | 109 | 0 | 239 | 179 | 114 |
| Peak Hour Factor | 0.92 | 0.92 | 0.92 | 0.95 | 0.95 | 0.95 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| Cap, veh/h | 55 | 2504 | | 405 | 2856 | 156 | 258 | 162 | | 339 | 263 | 270 |
| Arrive On Green | 0.03 | 0.49 | 0.00 | 0.12 | 0.58 | 0.58 | 0.08 | 0.09 | 0.00 | 0.13 | 0.14 | 0.14 |
| Sat Flow, veh/h | 1781 | 5106 | 1585 | 3456 | 4953 | 270 | 1795 | 1885 | 2812 | 1795 | 1885 | 1584 |
| Grp Volume(v), veh/h | 43 | 2147 | 0 | 347 | 1319 | 707 | 130 | 109 | 0 | 239 | 179 | 114 |
| Grp Sat Flow(s), veh/h/ln | 1781 | 1702 | 1585 | 1728 | 1702 | 1818 | 1795 | 1885 | 1406 | 1795 | 1885 | 1584 |
| Q Serve(g_s), s | 2.9 | 45.1 | 0.0 | 12.0 | 32.7 | 32.9 | 7.9 | 6.8 | 0.0 | 14.3 | 11.0 | 7.9 |
| Cycle Q Clear(g_c), s | 2.9 | 45.1 | 0.0 | 12.0 | 32.7 | 32.9 | 7.9 | 6.8 | 0.0 | 14.3 | 11.0 | 7.9 |
| Prop In Lane | 1.00 | | | 1.00 | 1.00 | | 0.15 | 1.00 | | 1.00 | 1.00 | 1.00 |
| Lane Grp Cap(c), veh/h | 55 | 2504 | | 405 | 1963 | 1048 | 258 | 162 | | 339 | 263 | 270 |
| V/C Ratio(X) | 0.78 | 0.86 | | 0.86 | 0.67 | 0.67 | 0.50 | 0.67 | | 0.71 | 0.68 | 0.42 |
| Avail Cap(c_a), veh/h | 131 | 2504 | | 595 | 1963 | 1048 | 392 | 309 | | 377 | 309 | 309 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(l) | 1.00 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 58.7 | 27.3 | 0.0 | 52.8 | 17.9 | 17.9 | 45.7 | 54.1 | 0.0 | 41.4 | 49.9 | 45.2 |
| Incr Delay (d2), s/veh | 8.5 | 4.1 | 0.0 | 5.7 | 1.9 | 3.5 | 0.6 | 1.8 | 0.0 | 4.0 | 3.2 | 0.4 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%), veh/ln | 1.4 | 18.2 | 0.0 | 5.4 | 12.4 | 13.8 | 3.6 | 3.3 | 0.0 | 6.8 | 5.5 | 3.1 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 67.2 | 31.4 | 0.0 | 58.6 | 19.7 | 21.4 | 46.3 | 55.9 | 0.0 | 45.4 | 53.2 | 45.6 |
| LnGrp LOS | E | C | | E | B | C | D | E | | D | D | D |
| Approach Vol, veh/h | 2190 | | | | 2373 | | | | 239 | | | 532 |
| Approach Delay, s/veh | 32.1 | | | | 25.9 | | | | 50.7 | | | 48.1 |
| Approach LOS | C | | | | C | | | | D | | | D |
| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | | | |
| Phs Duration (G+Y+Rc), s | 19.3 | 65.8 | 13.9 | 23.0 | 8.8 | 76.3 | 20.4 | 16.5 | | | | |
| Change Period (Y+Rc), s | 5.0 | 6.0 | 4.0 | 6.0 | 5.0 | 6.0 | 4.0 | 6.0 | | | | |
| Max Green Setting (Gmax), s | 21.0 | 41.0 | 19.0 | 20.0 | 9.0 | 53.0 | 19.0 | 20.0 | | | | |
| Max Q Clear Time (g_c+l1), s | 14.0 | 47.1 | 9.9 | 13.0 | 4.9 | 34.9 | 16.3 | 8.8 | | | | |
| Green Ext Time (p_c), s | 0.3 | 0.0 | 0.1 | 0.5 | 0.0 | 12.8 | 0.1 | 0.2 | | | | |

Intersection Summary

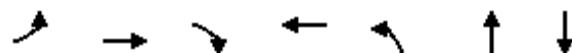
HCM 6th Ctrl Delay 31.8

HCM 6th LOS C

Notes

User approved pedestrian interval to be less than phase max green.

Unsignalized Delay for [NBR, EBR] is excluded from calculations of the approach delay and intersection delay.



| Lane Group | EBL | EBT | EBR | WBT | NBL | NBT | SBT |
|----------------------|-------|-------|-------|-------|-------|-------|-------|
| Lane Configurations | | | | | | | |
| Traffic Volume (vph) | 105 | 0 | 10 | 0 | 15 | 735 | 345 |
| Future Volume (vph) | 105 | 0 | 10 | 0 | 15 | 735 | 345 |
| Turn Type | Perm | NA | Perm | NA | Perm | NA | NA |
| Protected Phases | | 4 | | 8 | | 2 | 6 |
| Permitted Phases | 4 | | 4 | | 2 | | |
| Detector Phase | 4 | 4 | 4 | 8 | 2 | 2 | 6 |
| Switch Phase | | | | | | | |
| Minimum Initial (s) | 5.0 | 5.0 | 5.0 | 5.0 | 10.0 | 10.0 | 10.0 |
| Minimum Split (s) | 23.0 | 23.0 | 23.0 | 24.0 | 18.0 | 18.0 | 22.0 |
| Total Split (s) | 33.0 | 33.0 | 33.0 | 21.0 | 78.0 | 78.0 | 78.0 |
| Total Split (%) | 25.0% | 25.0% | 25.0% | 15.9% | 59.1% | 59.1% | 59.1% |
| Yellow Time (s) | 3.0 | 3.0 | 3.0 | 3.0 | 4.0 | 4.0 | 4.0 |
| All-Red Time (s) | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 |
| Lost Time Adjust (s) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Lost Time (s) | | 5.0 | 5.0 | 6.0 | 6.0 | 6.0 | |
| Lead/Lag | | | | | | | |
| Lead-Lag Optimize? | | | | | | | |
| Recall Mode | None | None | None | None | C-Min | C-Min | C-Min |
| Act Effect Green (s) | 45.7 | 45.7 | 5.0 | 73.3 | 73.3 | 73.3 | |
| Actuated g/C Ratio | 0.35 | 0.35 | 0.04 | 0.56 | 0.56 | 0.56 | |
| v/c Ratio | 2.04 | 0.02 | 0.03 | 0.04 | 0.77 | 0.47 | |

Intersection Summary

Cycle Length: 132

Actuated Cycle Length: 132

Offset: 38 (29%), Referenced to phase 2:NBTL and 6:SBTL, Start of Yellow

Natural Cycle: 90

Control Type: Actuated-Coordinated

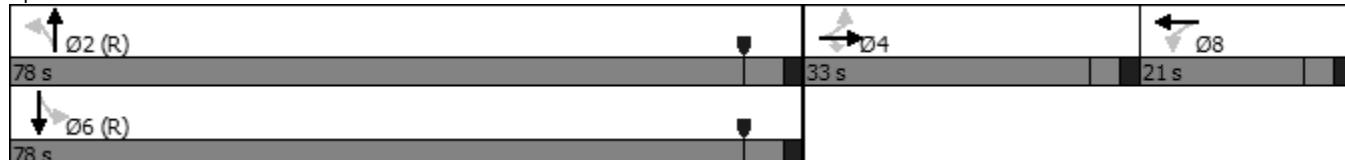
Maximum v/c Ratio: 2.04

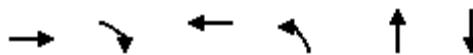
Intersection Signal Delay: 65.9

Intersection Capacity Utilization 60.7%

Analysis Period (min) 15

Splits and Phases: 2: Potomac Street & Louisiana Avenue





| Lane Group | EBT | EBR | WBT | NBL | NBT | SBT |
|-------------------------|-------|------|------|------|------|------|
| Lane Group Flow (vph) | 114 | 11 | 8 | 16 | 801 | 468 |
| v/c Ratio | 2.04 | 0.02 | 0.03 | 0.04 | 0.77 | 0.47 |
| Control Delay | 544.5 | 0.1 | 0.0 | 12.0 | 28.4 | 18.1 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay | 544.5 | 0.1 | 0.0 | 12.0 | 28.4 | 18.1 |
| Queue Length 50th (ft) | ~151 | 0 | 0 | 6 | 511 | 221 |
| Queue Length 95th (ft) | #272 | 0 | 0 | 15 | 582 | 261 |
| Internal Link Dist (ft) | 715 | | 260 | | 100 | 235 |
| Turn Bay Length (ft) | | | | 40 | | |
| Base Capacity (vph) | 56 | 574 | 425 | 398 | 1053 | 1017 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 2.04 | 0.02 | 0.02 | 0.04 | 0.76 | 0.46 |

Intersection Summary

- ~ Volume exceeds capacity, queue is theoretically infinite.
Queue shown is maximum after two cycles.
- # 95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

HCM 6th Signalized Intersection Summary
05/17/2022

2: Potomac Street & Louisiana Avenue
2040 Background - PM Peak Hour

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|----------------------------------|-------|------|------|------|-------|------|------|------|------|------|------|------|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (veh/h) | 105 | 0 | 10 | 0 | 0 | 2 | 15 | 735 | 2 | 0 | 345 | 100 |
| Future Volume (veh/h) | 105 | 0 | 10 | 0 | 0 | 2 | 15 | 735 | 2 | 0 | 345 | 100 |
| Initial Q (Q _b), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ped-Bike Adj(A_pbT) | 0.99 | | 0.99 | 1.00 | | 0.99 | 1.00 | | 0.97 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1900 | 1900 | 1900 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 |
| Adj Flow Rate, veh/h | 114 | 0 | 11 | 0 | 0 | 8 | 16 | 799 | 2 | 0 | 363 | 105 |
| Peak Hour Factor | 0.92 | 0.92 | 0.92 | 0.25 | 0.25 | 0.25 | 0.92 | 0.92 | 0.92 | 0.95 | 0.95 | 0.95 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 0 | 0 | 0 | 2 | 2 | 2 | 2 | 2 | 2 |
| Cap, veh/h | 195 | 0 | 164 | 0 | 0 | 168 | 743 | 1513 | 4 | 55 | 1130 | 327 |
| Arrive On Green | 0.11 | 0.00 | 0.11 | 0.00 | 0.00 | 0.11 | 0.81 | 0.81 | 0.81 | 0.00 | 0.81 | 0.81 |
| Sat Flow, veh/h | 1336 | 0 | 1562 | 0 | 0 | 1596 | 924 | 1865 | 5 | 679 | 1393 | 403 |
| Grp Volume(v), veh/h | 114 | 0 | 11 | 0 | 0 | 8 | 16 | 0 | 801 | 0 | 0 | 468 |
| Grp Sat Flow(s), veh/h/ln | 1336 | 0 | 1562 | 0 | 0 | 1596 | 924 | 0 | 1869 | 679 | 0 | 1796 |
| Q Serve(g_s), s | 10.6 | 0.0 | 0.8 | 0.0 | 0.0 | 0.6 | 0.6 | 0.0 | 18.6 | 0.0 | 0.0 | 8.8 |
| Cycle Q Clear(g_c), s | 11.2 | 0.0 | 0.8 | 0.0 | 0.0 | 0.6 | 9.4 | 0.0 | 18.6 | 0.0 | 0.0 | 8.8 |
| Prop In Lane | 1.00 | | 1.00 | 0.00 | | 1.00 | 1.00 | | 0.00 | 1.00 | | 0.22 |
| Lane Grp Cap(c), veh/h | 195 | 0 | 164 | 0 | 0 | 168 | 743 | 0 | 1517 | 55 | 0 | 1457 |
| V/C Ratio(X) | 0.58 | 0.00 | 0.07 | 0.00 | 0.00 | 0.05 | 0.02 | 0.00 | 0.53 | 0.00 | 0.00 | 0.32 |
| Avail Cap(c_a), veh/h | 344 | 0 | 331 | 0 | 0 | 194 | 743 | 0 | 1517 | 55 | 0 | 1457 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(l) | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 1.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 1.00 |
| Uniform Delay (d), s/veh | 58.1 | 0.0 | 53.2 | 0.0 | 0.0 | 53.1 | 4.4 | 0.0 | 4.1 | 0.0 | 0.0 | 3.2 |
| Incr Delay (d2), s/veh | 1.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.1 | 0.1 | 0.0 | 1.3 | 0.0 | 0.0 | 0.6 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%), veh/ln | 3.8 | 0.0 | 0.3 | 0.0 | 0.0 | 0.2 | 0.1 | 0.0 | 6.2 | 0.0 | 0.0 | 2.8 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 59.2 | 0.0 | 53.3 | 0.0 | 0.0 | 53.2 | 4.4 | 0.0 | 5.4 | 0.0 | 0.0 | 3.8 |
| LnGrp LOS | E | A | D | A | A | D | A | A | A | A | A | A |
| Approach Vol, veh/h | 125 | | | | 8 | | | 817 | | | 468 | |
| Approach Delay, s/veh | 58.7 | | | | 53.2 | | | 5.4 | | | 3.8 | |
| Approach LOS | E | | | | D | | | A | | | A | |
| Timer - Assigned Phs | 2 | | 4 | | 6 | | 8 | | | | | |
| Phs Duration (G+Y+Rc), s | 113.1 | | 18.9 | | 113.1 | | 18.9 | | | | | |
| Change Period (Y+Rc), s | 6.0 | | 5.0 | | 6.0 | | 5.0 | | | | | |
| Max Green Setting (Gmax), s | 72.0 | | 28.0 | | 72.0 | | 16.0 | | | | | |
| Max Q Clear Time (g_c+l1), s | 20.6 | | 13.2 | | 10.8 | | 2.6 | | | | | |
| Green Ext Time (p_c), s | 16.3 | | 0.3 | | 7.4 | | 0.0 | | | | | |

Intersection Summary

HCM 6th Ctrl Delay 9.8
HCM 6th LOS A

Notes

User approved pedestrian interval to be less than phase max green.

Intersection

Int Delay, s/veh 0

| Movement | WBL | WBR | NBT | NBR | SBL | SBT |
|--------------------------|------|------|------|------|------|------|
| Lane Configurations | W | B | T | T | B | T |
| Traffic Vol, veh/h | 0 | 0 | 750 | 0 | 0 | 350 |
| Future Vol, veh/h | 0 | 0 | 750 | 0 | 0 | 350 |
| Conflicting Peds, #/hr | 1 | 1 | 0 | 11 | 11 | 0 |
| Sign Control | Stop | Stop | Free | Free | Free | Free |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | 0 | - | - | - | 30 | - |
| Veh in Median Storage, # | 0 | - | 0 | - | - | 0 |
| Grade, % | 0 | - | 0 | - | - | 0 |
| Peak Hour Factor | 25 | 25 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 0 | 0 | 2 | 2 | 3 | 3 |
| Mvmt Flow | 0 | 0 | 815 | 0 | 0 | 380 |

| Major/Minor | Minor1 | Major1 | Major2 | |
|----------------------|--------|--------|--------|-------|
| Conflicting Flow All | 1207 | 827 | 0 | 0 |
| Stage 1 | 826 | - | - | - |
| Stage 2 | 381 | - | - | - |
| Critical Hdwy | 6.4 | 6.2 | - | 4.13 |
| Critical Hdwy Stg 1 | 5.4 | - | - | - |
| Critical Hdwy Stg 2 | 5.4 | - | - | - |
| Follow-up Hdwy | 3.5 | 3.3 | - | 2.227 |
| Pot Cap-1 Maneuver | 204 | 375 | - | 800 |
| Stage 1 | 433 | - | - | - |
| Stage 2 | 695 | - | - | - |
| Platoon blocked, % | - | - | - | - |
| Mov Cap-1 Maneuver | 202 | 371 | - | 792 |
| Mov Cap-2 Maneuver | 326 | - | - | - |
| Stage 1 | 429 | - | - | - |
| Stage 2 | 694 | - | - | - |

| Approach | WB | NB | SB | |
|-----------------------|-----|----------|-----|-----|
| HCM Control Delay, s | 0 | 0 | 0 | |
| HCM LOS | A | | | |
| | | | | |
| Minor Lane/Major Mvmt | NBT | NBRWBLn1 | SBL | SBT |
| Capacity (veh/h) | - | - | 792 | - |
| HCM Lane V/C Ratio | - | - | - | - |
| HCM Control Delay (s) | - | - | 0 | 0 |
| HCM Lane LOS | - | - | A | A |
| HCM 95th %tile Q(veh) | - | - | 0 | - |

| Intersection | | | | | | | | | | | | |
|--------------------------|--------|--------|-------|-------|--------|-------|-------|--------|------|-------|------|------|
| Int Delay, s/veh | 3.5 | | | | | | | | | | | |
| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
| Lane Configurations | ↖ | ↗ | | ↖ | ↗ | | ↖ | ↗ | | ↖ | ↗ | |
| Traffic Vol, veh/h | 35 | 3 | 25 | 25 | 3 | 55 | 20 | 365 | 10 | 20 | 270 | 15 |
| Future Vol, veh/h | 35 | 3 | 25 | 25 | 3 | 55 | 20 | 365 | 10 | 20 | 270 | 15 |
| Conflicting Peds, #/hr | 3 | 0 | 2 | 2 | 0 | 3 | 1 | 0 | 3 | 3 | 0 | 1 |
| Sign Control | Stop | Stop | Stop | Stop | Stop | Stop | Free | Free | Free | Free | Free | Free |
| RT Channelized | - | - | None | - | - | None | - | - | None | - | - | None |
| Storage Length | 40 | - | - | 40 | - | - | 100 | - | - | 100 | - | - |
| Veh in Median Storage, # | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Grade, % | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Peak Hour Factor | 78 | 78 | 78 | 76 | 76 | 76 | 94 | 94 | 94 | 98 | 98 | 98 |
| Heavy Vehicles, % | 2 | 2 | 2 | 0 | 0 | 0 | 2 | 2 | 2 | 1 | 1 | 1 |
| Mvmt Flow | 45 | 4 | 32 | 33 | 4 | 72 | 21 | 388 | 11 | 20 | 276 | 15 |
| Major/Minor | Minor2 | Minor1 | | | Major1 | | | Major2 | | | | |
| Conflicting Flow All | 802 | 769 | 287 | 783 | 771 | 400 | 292 | 0 | 0 | 402 | 0 | 0 |
| Stage 1 | 325 | 325 | - | 439 | 439 | - | - | - | - | - | - | - |
| Stage 2 | 477 | 444 | - | 344 | 332 | - | - | - | - | - | - | - |
| Critical Hdwy | 7.12 | 6.52 | 6.22 | 7.1 | 6.5 | 6.2 | 4.12 | - | - | 4.11 | - | - |
| Critical Hdwy Stg 1 | 6.12 | 5.52 | - | 6.1 | 5.5 | - | - | - | - | - | - | - |
| Critical Hdwy Stg 2 | 6.12 | 5.52 | - | 6.1 | 5.5 | - | - | - | - | - | - | - |
| Follow-up Hdwy | 3.518 | 4.018 | 3.318 | 3.5 | 4 | 3.3 | 2.218 | - | - | 2.209 | - | - |
| Pot Cap-1 Maneuver | 302 | 332 | 752 | 314 | 333 | 654 | 1270 | - | - | 1162 | - | - |
| Stage 1 | 687 | 649 | - | 601 | 582 | - | - | - | - | - | - | - |
| Stage 2 | 569 | 575 | - | 676 | 648 | - | - | - | - | - | - | - |
| Platoon blocked, % | | | | | | | | - | - | - | - | - |
| Mov Cap-1 Maneuver | 258 | 319 | 750 | 289 | 320 | 650 | 1269 | - | - | 1159 | - | - |
| Mov Cap-2 Maneuver | 258 | 319 | - | 289 | 320 | - | - | - | - | - | - | - |
| Stage 1 | 675 | 637 | - | 590 | 570 | - | - | - | - | - | - | - |
| Stage 2 | 492 | 564 | - | 631 | 636 | - | - | - | - | - | - | - |
| Approach | EB | WB | | | NB | | | SB | | | | |
| HCM Control Delay, s | 17 | 13.9 | | | 0.4 | | | 0.5 | | | | |
| HCM LOS | C | B | | | | | | | | | | |
| Minor Lane/Major Mvmt | NBL | NBT | NBR | EBLn1 | EBLn2 | WBLn1 | WBLn2 | SBL | SBT | SBR | | |
| Capacity (veh/h) | 1269 | - | - | 258 | 655 | 289 | 617 | 1159 | - | - | | |
| HCM Lane V/C Ratio | 0.017 | - | - | 0.174 | 0.055 | 0.114 | 0.124 | 0.018 | - | - | | |
| HCM Control Delay (s) | 7.9 | - | - | 21.9 | 10.8 | 19.1 | 11.7 | 8.2 | - | - | | |
| HCM Lane LOS | A | - | - | C | B | C | B | A | - | - | | |
| HCM 95th %tile Q(veh) | 0.1 | - | - | 0.6 | 0.2 | 0.4 | 0.4 | 0.1 | - | - | | |

Intersection

Intersection Delay, s/veh 7.7

Intersection LOS A

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|----------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Lane Configurations | | ↔ | | | ↔ | | | ↔ | | | ↔ | |
| Traffic Vol, veh/h | 20 | 15 | 10 | 5 | 20 | 25 | 5 | 45 | 2 | 20 | 60 | 30 |
| Future Vol, veh/h | 20 | 15 | 10 | 5 | 20 | 25 | 5 | 45 | 2 | 20 | 60 | 30 |
| Peak Hour Factor | 0.88 | 0.88 | 0.88 | 0.88 | 0.88 | 0.88 | 0.88 | 0.88 | 0.88 | 0.88 | 0.88 | 0.88 |
| Heavy Vehicles, % | 5 | 5 | 5 | 7 | 7 | 7 | 0 | 0 | 0 | 2 | 2 | 2 |
| Mvmt Flow | 23 | 17 | 11 | 6 | 23 | 28 | 6 | 51 | 2 | 23 | 68 | 34 |
| Number of Lanes | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 |
| Approach | EB | | | WB | | | NB | | | SB | | |
| Opposing Approach | WB | | | EB | | | SB | | | NB | | |
| Opposing Lanes | 1 | | | 1 | | | 1 | | | 1 | | |
| Conflicting Approach Left | SB | | | NB | | | EB | | | WB | | |
| Conflicting Lanes Left | 1 | | | 1 | | | 1 | | | 1 | | |
| Conflicting Approach Right | NB | | | SB | | | WB | | | EB | | |
| Conflicting Lanes Right | 1 | | | 1 | | | 1 | | | 1 | | |
| HCM Control Delay | 7.7 | | | 7.5 | | | 7.6 | | | 7.8 | | |
| HCM LOS | A | | | A | | | A | | | A | | |

| Lane | NBLn1 | EBLn1 | WBLn1 | SBLn1 |
|------------------------|-------|-------|-------|-------|
| Vol Left, % | 10% | 44% | 10% | 18% |
| Vol Thru, % | 87% | 33% | 40% | 55% |
| Vol Right, % | 4% | 22% | 50% | 27% |
| Sign Control | Stop | Stop | Stop | Stop |
| Traffic Vol by Lane | 52 | 45 | 50 | 110 |
| LT Vol | 5 | 20 | 5 | 20 |
| Through Vol | 45 | 15 | 20 | 60 |
| RT Vol | 2 | 10 | 25 | 30 |
| Lane Flow Rate | 59 | 51 | 57 | 125 |
| Geometry Grp | 1 | 1 | 1 | 1 |
| Degree of Util (X) | 0.069 | 0.063 | 0.066 | 0.14 |
| Departure Headway (Hd) | 4.18 | 4.405 | 4.198 | 4.04 |
| Convergence, Y/N | Yes | Yes | Yes | Yes |
| Cap | 844 | 818 | 858 | 876 |
| Service Time | 2.271 | 2.405 | 2.2 | 2.118 |
| HCM Lane V/C Ratio | 0.07 | 0.062 | 0.066 | 0.143 |
| HCM Control Delay | 7.6 | 7.7 | 7.5 | 7.8 |
| HCM Lane LOS | A | A | A | A |
| HCM 95th-tile Q | 0.2 | 0.2 | 0.2 | 0.5 |

***Intersection Capacity Worksheets:
2025 Background
+ Project***

| Lane Group | EBL | EBT | EBR | WBL | WBT | NBL | NBT | NBR | SBL | SBT | SBR |
|----------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Lane Configurations | ↑ | ↑↑↑ | ↑ | ↑↑ | ↑↑↑ | ↑ | ↑ | ↑↑ | ↑ | ↑ | ↑ |
| Traffic Volume (vph) | 29 | 1177 | 132 | 823 | 1724 | 160 | 108 | 74 | 160 | 108 | 74 |
| Future Volume (vph) | 29 | 1177 | 132 | 823 | 1724 | 160 | 108 | 74 | 160 | 108 | 74 |
| Turn Type | Prot | NA | Perm | Prot | NA | pm+pt | NA | Perm | pm+pt | NA | Perm |
| Protected Phases | 5 | 2 | | 1 | 6 | 3 | 8 | | 7 | 4 | |
| Permitted Phases | | | | 2 | | | 8 | | 8 | 4 | |
| Detector Phase | 5 | 2 | 2 | 1 | 6 | 3 | 8 | 8 | 7 | 4 | 4 |
| Switch Phase | | | | | | | | | | | |
| Minimum Initial (s) | 4.0 | 10.0 | 10.0 | 4.0 | 10.0 | 3.0 | 5.0 | 5.0 | 3.0 | 5.0 | 5.0 |
| Minimum Split (s) | 9.5 | 29.0 | 29.0 | 9.5 | 24.0 | 9.5 | 38.0 | 38.0 | 9.5 | 34.0 | 34.0 |
| Total Split (s) | 14.0 | 30.0 | 30.0 | 46.0 | 62.0 | 10.0 | 20.0 | 20.0 | 25.0 | 35.0 | 35.0 |
| Total Split (%) | 11.6% | 24.8% | 24.8% | 38.0% | 51.2% | 8.3% | 16.5% | 16.5% | 20.7% | 28.9% | 28.9% |
| Yellow Time (s) | 3.0 | 4.0 | 4.0 | 3.0 | 4.0 | 3.0 | 4.0 | 4.0 | 3.0 | 4.0 | 4.0 |
| All-Red Time (s) | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 1.0 | 2.0 | 2.0 | 1.0 | 2.0 | 2.0 |
| Lost Time Adjust (s) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Lost Time (s) | 5.0 | 6.0 | 6.0 | 5.0 | 6.0 | 4.0 | 6.0 | 6.0 | 4.0 | 6.0 | 6.0 |
| Lead/Lag | Lead | Lag | Lag | Lead | Lag | Lead | Lag | Lag | Lead | Lag | Lag |
| Lead-Lag Optimize? | Yes |
| Recall Mode | None | C-Max | C-Max | None | C-Max | None | None | None | None | None | None |
| Act Effct Green (s) | 6.4 | 38.0 | 38.0 | 35.1 | 70.5 | 20.0 | 12.0 | 12.0 | 32.7 | 20.9 | 20.9 |
| Actuated g/C Ratio | 0.05 | 0.31 | 0.31 | 0.29 | 0.58 | 0.17 | 0.10 | 0.10 | 0.27 | 0.17 | 0.17 |
| v/c Ratio | 0.38 | 0.88 | 0.25 | 0.89 | 0.66 | 0.81 | 0.70 | 0.20 | 0.52 | 0.36 | 0.20 |

Intersection Summary

Cycle Length: 121

Actuated Cycle Length: 121

Offset: 95 (79%), Referenced to phase 2:EBT and 6:WBT, Start of Green

Natural Cycle: 120

Control Type: Actuated-Coordinated

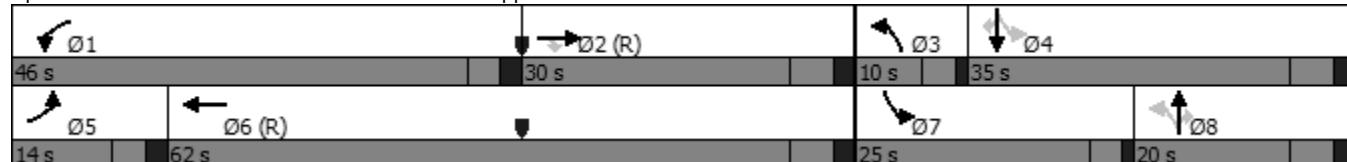
Maximum v/c Ratio: 0.89

Intersection Signal Delay: 36.9

Intersection Capacity Utilization 77.0%

Analysis Period (min) 15

Splits and Phases: 1: Potomac Street & Mississippi Avenue





| Lane Group | EBL | EBT | EBR | WBL | WBT | NBL | NBT | NBR | SBL | SBT | SBR |
|-------------------------|------|------|------|------|------|------|------|------|------|------|------|
| Lane Group Flow (vph) | 35 | 1401 | 157 | 876 | 1917 | 193 | 130 | 89 | 172 | 116 | 80 |
| v/c Ratio | 0.38 | 0.88 | 0.25 | 0.89 | 0.66 | 0.81 | 0.70 | 0.20 | 0.52 | 0.36 | 0.20 |
| Control Delay | 65.9 | 48.0 | 4.1 | 52.5 | 20.8 | 67.9 | 72.0 | 1.0 | 39.9 | 45.3 | 1.1 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay | 65.9 | 48.0 | 4.1 | 52.5 | 20.8 | 67.9 | 72.0 | 1.0 | 39.9 | 45.3 | 1.1 |
| Queue Length 50th (ft) | 27 | 384 | 0 | 335 | 385 | 122 | 99 | 0 | 108 | 80 | 0 |
| Queue Length 95th (ft) | 57 | #568 | 24 | 390 | 532 | #162 | 150 | 0 | 157 | 128 | 0 |
| Internal Link Dist (ft) | | 1218 | | | 819 | | 404 | | | 347 | |
| Turn Bay Length (ft) | 135 | | 430 | 400 | | 160 | | 200 | 50 | | 50 |
| Base Capacity (vph) | 131 | 1596 | 617 | 1152 | 2916 | 237 | 221 | 492 | 384 | 450 | 494 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.27 | 0.88 | 0.25 | 0.76 | 0.66 | 0.81 | 0.59 | 0.18 | 0.45 | 0.26 | 0.16 |

Intersection Summary

95th percentile volume exceeds capacity, queue may be longer.

Queue shown is maximum after two cycles.

HCM 6th Signalized Intersection Summary
05/17/2022

1: Potomac Street & Mississippi Avenue
2025 Bkgd + Project - AM Peak Hour

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|----------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Lane Configurations | ↑ | ↑↑↑ | ↑ | ↑↑ | ↑↑↑ | | ↑ | ↑ | ↑↑ | ↑ | ↑ | ↑ |
| Traffic Volume (veh/h) | 29 | 1177 | 132 | 823 | 1724 | 78 | 160 | 108 | 74 | 160 | 108 | 74 |
| Future Volume (veh/h) | 29 | 1177 | 132 | 823 | 1724 | 78 | 160 | 108 | 74 | 160 | 108 | 74 |
| Initial Q (Q _b), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 1.00 | 0.99 | | 1.00 | 1.00 | | 0.99 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | No | | | No | | | No | | | No | | |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1856 | 1856 | 1856 | 1885 | 1885 | 1885 | 1885 | 1885 | 1885 |
| Adj Flow Rate, veh/h | 35 | 1401 | 0 | 876 | 1834 | 83 | 193 | 130 | 0 | 172 | 116 | 80 |
| Peak Hour Factor | 0.84 | 0.84 | 0.84 | 0.94 | 0.94 | 0.94 | 0.83 | 0.83 | 0.83 | 0.93 | 0.93 | 0.93 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 3 | 3 | 3 | 1 | 1 | 1 | 1 | 1 | 1 |
| Cap, veh/h | 44 | 1854 | | 938 | 3038 | 137 | 248 | 166 | | 268 | 264 | 222 |
| Arrive On Green | 0.02 | 0.36 | 0.00 | 0.27 | 0.61 | 0.61 | 0.05 | 0.09 | 0.00 | 0.10 | 0.14 | 0.14 |
| Sat Flow, veh/h | 1781 | 5106 | 1585 | 3428 | 4966 | 224 | 1795 | 1885 | 2812 | 1795 | 1885 | 1587 |
| Grp Volume(v), veh/h | 35 | 1401 | 0 | 876 | 1246 | 671 | 193 | 130 | 0 | 172 | 116 | 80 |
| Grp Sat Flow(s), veh/h/ln | 1781 | 1702 | 1585 | 1714 | 1689 | 1814 | 1795 | 1885 | 1406 | 1795 | 1885 | 1587 |
| Q Serve(g_s), s | 2.4 | 29.1 | 0.0 | 30.2 | 27.5 | 27.6 | 6.0 | 8.2 | 0.0 | 10.2 | 6.8 | 5.5 |
| Cycle Q Clear(g_c), s | 2.4 | 29.1 | 0.0 | 30.2 | 27.5 | 27.6 | 6.0 | 8.2 | 0.0 | 10.2 | 6.8 | 5.5 |
| Prop In Lane | 1.00 | | 1.00 | 1.00 | | 0.12 | 1.00 | | 1.00 | 1.00 | | 1.00 |
| Lane Grp Cap(c), veh/h | 44 | 1854 | | 938 | 2066 | 1110 | 248 | 166 | | 268 | 264 | 222 |
| V/C Ratio(X) | 0.79 | 0.76 | | 0.93 | 0.60 | 0.60 | 0.78 | 0.78 | | 0.64 | 0.44 | 0.36 |
| Avail Cap(c_a), veh/h | 132 | 1854 | | 1162 | 2066 | 1110 | 248 | 218 | | 397 | 452 | 380 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(l) | 1.00 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 58.7 | 33.8 | 0.0 | 42.9 | 14.4 | 14.5 | 51.6 | 54.0 | 0.0 | 42.7 | 47.7 | 47.1 |
| Incr Delay (d2), s/veh | 10.7 | 2.9 | 0.0 | 10.8 | 1.3 | 2.4 | 13.3 | 9.2 | 0.0 | 1.0 | 0.4 | 0.4 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%), veh/ln | 1.2 | 12.1 | 0.0 | 13.8 | 9.9 | 11.1 | 3.8 | 4.3 | 0.0 | 4.6 | 3.3 | 2.2 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 69.4 | 36.7 | 0.0 | 53.7 | 15.8 | 16.9 | 64.9 | 63.2 | 0.0 | 43.6 | 48.1 | 47.5 |
| LnGrp LOS | E | D | | D | B | B | E | E | | D | D | D |
| Approach Vol, veh/h | | 1436 | | | 2793 | | | 323 | | | 368 | |
| Approach Delay, s/veh | | 37.5 | | | 27.9 | | | 64.2 | | | 45.9 | |
| Approach LOS | | D | | | C | | | E | | | D | |
| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | | | |
| Phs Duration (G+Y+Rc), s | 38.1 | 49.9 | 10.0 | 23.0 | 8.0 | 80.0 | 16.3 | 16.7 | | | | |
| Change Period (Y+Rc), s | 5.0 | 6.0 | 4.0 | 6.0 | 5.0 | 6.0 | 4.0 | 6.0 | | | | |
| Max Green Setting (Gmax), s | 41.0 | 24.0 | 6.0 | 29.0 | 9.0 | 56.0 | 21.0 | 14.0 | | | | |
| Max Q Clear Time (g_c+l1), s | 32.2 | 31.1 | 8.0 | 8.8 | 4.4 | 29.6 | 12.2 | 10.2 | | | | |
| Green Ext Time (p_c), s | 1.0 | 0.0 | 0.0 | 0.5 | 0.0 | 15.7 | 0.2 | 0.1 | | | | |

Intersection Summary

HCM 6th Ctrl Delay 34.5
HCM 6th LOS C

Notes

User approved pedestrian interval to be less than phase max green.

Unsignalized Delay for [NBR, EBR] is excluded from calculations of the approach delay and intersection delay.



| Lane Group | EBL | EBT | EBR | WBL | WBT | NBL | NBT | SBT |
|----------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| Lane Configurations | | | | | | | | |
| Traffic Volume (vph) | 98 | 0 | 31 | 3 | 1 | 15 | 341 | 809 |
| Future Volume (vph) | 98 | 0 | 31 | 3 | 1 | 15 | 341 | 809 |
| Turn Type | Perm | NA | Perm | Perm | NA | Perm | NA | NA |
| Protected Phases | | | | | 8 | | 2 | 6 |
| Permitted Phases | 4 | | | 4 | 8 | | 2 | |
| Detector Phase | 4 | 4 | 4 | 8 | 8 | 2 | 2 | 6 |
| Switch Phase | | | | | | | | |
| Minimum Initial (s) | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 10.0 | 10.0 | 10.0 |
| Minimum Split (s) | 23.0 | 23.0 | 23.0 | 24.0 | 24.0 | 18.0 | 18.0 | 22.0 |
| Total Split (s) | 33.0 | 33.0 | 33.0 | 21.0 | 21.0 | 78.0 | 78.0 | 78.0 |
| Total Split (%) | 25.0% | 25.0% | 25.0% | 15.9% | 15.9% | 59.1% | 59.1% | 59.1% |
| Yellow Time (s) | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 4.0 | 4.0 | 4.0 |
| All-Red Time (s) | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 |
| Lost Time Adjust (s) | | | | | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Lost Time (s) | | | | 5.0 | 5.0 | 6.0 | 6.0 | 6.0 |
| Lead/Lag | | | | | | | | |
| Lead-Lag Optimize? | | | | | | | | |
| Recall Mode | None | None | None | None | None | C-Min | C-Min | C-Min |
| Act Effect Green (s) | | 14.7 | 14.7 | | 6.2 | 101.4 | 101.4 | 101.4 |
| Actuated g/C Ratio | | 0.11 | 0.11 | | 0.05 | 0.77 | 0.77 | 0.77 |
| v/c Ratio | | 0.70 | 0.14 | | 0.14 | 0.07 | 0.26 | 0.73 |

Intersection Summary

Cycle Length: 132

Actuated Cycle Length: 132

Offset: 38 (29%), Referenced to phase 2:NBTL and 6:SBTL, Start of Yellow

Natural Cycle: 110

Control Type: Actuated-Coordinated

Maximum v/c Ratio: 0.73

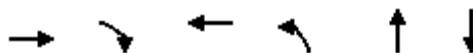
Intersection Signal Delay: 18.8

Intersection Capacity Utilization 70.4%

Analysis Period (min) 15

Splits and Phases: 2: Potomac Street & Louisiana Avenue





| Lane Group | EBT | EBR | WBT | NBL | NBT | SBT |
|-------------------------|------|------|------|------|------|------|
| Lane Group Flow (vph) | 105 | 33 | 12 | 17 | 379 | 1031 |
| v/c Ratio | 0.70 | 0.14 | 0.14 | 0.07 | 0.26 | 0.73 |
| Control Delay | 79.7 | 2.7 | 63.0 | 7.3 | 6.4 | 14.8 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.6 |
| Total Delay | 79.7 | 2.7 | 63.0 | 7.3 | 6.4 | 17.4 |
| Queue Length 50th (ft) | 88 | 0 | 10 | 2 | 65 | 321 |
| Queue Length 95th (ft) | 145 | 6 | 12 | 15 | 182 | 789 |
| Internal Link Dist (ft) | 715 | | 260 | | 100 | 235 |
| Turn Bay Length (ft) | | | | 40 | | |
| Base Capacity (vph) | 285 | 375 | 230 | 254 | 1444 | 1409 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 255 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.37 | 0.09 | 0.05 | 0.07 | 0.26 | 0.89 |

Intersection Summary

HCM 6th Signalized Intersection Summary
05/17/2022

2: Potomac Street & Louisiana Avenue
2025 Bkgrd + Project - AM Peak Hour

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|------------------------------|-------|------|------|------|-------|------|------|------|------|------|------|------|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (veh/h) | 98 | 0 | 31 | 3 | 1 | 0 | 15 | 341 | 0 | 0 | 809 | 77 |
| Future Volume (veh/h) | 98 | 0 | 31 | 3 | 1 | 0 | 15 | 341 | 0 | 0 | 809 | 77 |
| Initial Q (Qb), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ped-Bike Adj(A_pbT) | 0.99 | | 0.98 | 0.99 | | | 1.00 | 1.00 | | 1.00 | 1.00 | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1811 | 1811 | 1811 | 1900 | 1900 | 1900 | 1885 | 1885 | 1885 | 1870 | 1870 | 1870 |
| Adj Flow Rate, veh/h | 105 | 0 | 33 | 9 | 3 | 0 | 17 | 379 | 0 | 0 | 941 | 90 |
| Peak Hour Factor | 0.93 | 0.93 | 0.93 | 0.33 | 0.33 | 0.33 | 0.90 | 0.90 | 0.90 | 0.86 | 0.86 | 0.86 |
| Percent Heavy Veh, % | 6 | 6 | 6 | 0 | 0 | 0 | 1 | 1 | 1 | 2 | 2 | 2 |
| Cap, veh/h | 189 | 0 | 147 | 74 | 18 | 0 | 379 | 1543 | 0 | 55 | 1375 | 132 |
| Arrive On Green | 0.10 | 0.00 | 0.10 | 0.10 | 0.10 | 0.00 | 0.82 | 0.82 | 0.00 | 0.00 | 0.82 | 0.82 |
| Sat Flow, veh/h | 1373 | 0 | 1504 | 268 | 187 | 0 | 551 | 1885 | 0 | 1004 | 1680 | 161 |
| Grp Volume(v), veh/h | 105 | 0 | 33 | 12 | 0 | 0 | 17 | 379 | 0 | 0 | 0 | 1031 |
| Grp Sat Flow(s), veh/h/ln | 1373 | 0 | 1504 | 455 | 0 | 0 | 551 | 1885 | 0 | 1004 | 0 | 1841 |
| Q Serve(g_s), s | 0.0 | 0.0 | 2.7 | 0.2 | 0.0 | 0.0 | 1.7 | 6.0 | 0.0 | 0.0 | 0.0 | 30.5 |
| Cycle Q Clear(g_c), s | 9.8 | 0.0 | 2.7 | 10.0 | 0.0 | 0.0 | 32.2 | 6.0 | 0.0 | 0.0 | 0.0 | 30.5 |
| Prop In Lane | 1.00 | | 1.00 | 0.75 | | | 0.00 | 1.00 | | 0.00 | 1.00 | 0.09 |
| Lane Grp Cap(c), veh/h | 189 | 0 | 147 | 92 | 0 | 0 | 379 | 1543 | 0 | 55 | 0 | 1507 |
| V/C Ratio(X) | 0.56 | 0.00 | 0.22 | 0.13 | 0.00 | 0.00 | 0.04 | 0.25 | 0.00 | 0.00 | 0.00 | 0.68 |
| Avail Cap(c_a), veh/h | 344 | 0 | 319 | 127 | 0 | 0 | 379 | 1543 | 0 | 55 | 0 | 1507 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(l) | 1.00 | 0.00 | 1.00 | 1.00 | 0.00 | 0.00 | 1.00 | 1.00 | 0.00 | 0.00 | 0.00 | 1.00 |
| Uniform Delay (d), s/veh | 58.1 | 0.0 | 54.9 | 55.3 | 0.0 | 0.0 | 11.6 | 2.7 | 0.0 | 0.0 | 0.0 | 4.9 |
| Incr Delay (d2), s/veh | 0.9 | 0.0 | 0.3 | 0.5 | 0.0 | 0.0 | 0.2 | 0.4 | 0.0 | 0.0 | 0.0 | 2.5 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%), veh/ln | 3.5 | 0.0 | 1.0 | 0.4 | 0.0 | 0.0 | 0.2 | 2.0 | 0.0 | 0.0 | 0.0 | 9.9 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 59.1 | 0.0 | 55.2 | 55.8 | 0.0 | 0.0 | 11.8 | 3.1 | 0.0 | 0.0 | 0.0 | 7.5 |
| LnGrp LOS | E | A | E | E | A | A | B | A | A | A | A | A |
| Approach Vol, veh/h | 138 | | | | 12 | | | 396 | | | 1031 | |
| Approach Delay, s/veh | 58.1 | | | | 55.8 | | | 3.5 | | | 7.5 | |
| Approach LOS | E | | | | E | | | A | | | A | |
| Timer - Assigned Phs | 2 | | 4 | | 6 | | 8 | | | | | |
| Phs Duration (G+Y+Rc), s | 114.1 | | 17.9 | | 114.1 | | 17.9 | | | | | |
| Change Period (Y+Rc), s | 6.0 | | 5.0 | | 6.0 | | 5.0 | | | | | |
| Max Green Setting (Gmax), s | 72.0 | | 28.0 | | 72.0 | | 16.0 | | | | | |
| Max Q Clear Time (g_c+l1), s | 34.2 | | 11.8 | | 32.5 | | 12.0 | | | | | |
| Green Ext Time (p_c), s | 5.5 | | 0.4 | | 22.2 | | 0.0 | | | | | |

Intersection Summary

HCM 6th Ctrl Delay 11.3
HCM 6th LOS B

Notes

User approved pedestrian interval to be less than phase max green.

| Intersection | | | | | | |
|--------------------------|--------|--------|--------|-------|-------|------|
| Int Delay, s/veh | 0.9 | | | | | |
| Movement | WBL | WBR | NBT | NBR | SBL | SBT |
| Lane Configurations | | | | | | |
| Traffic Vol, veh/h | 17 | 26 | 330 | 37 | 60 | 784 |
| Future Vol, veh/h | 17 | 26 | 330 | 37 | 60 | 784 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 3 | 3 | 0 |
| Sign Control | Stop | Stop | Free | Free | Free | Free |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | 0 | - | - | - | 30 | - |
| Veh in Median Storage, # | 0 | - | 0 | - | - | 0 |
| Grade, % | 0 | - | 0 | - | - | 0 |
| Peak Hour Factor | 90 | 90 | 91 | 91 | 89 | 89 |
| Heavy Vehicles, % | 1 | 1 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 19 | 29 | 363 | 41 | 67 | 881 |
| Major/Minor | Minor1 | Major1 | Major2 | | | |
| Conflicting Flow All | 1402 | 387 | 0 | 0 | 407 | 0 |
| Stage 1 | 387 | - | - | - | - | - |
| Stage 2 | 1015 | - | - | - | - | - |
| Critical Hdwy | 6.41 | 6.21 | - | - | 4.12 | - |
| Critical Hdwy Stg 1 | 5.41 | - | - | - | - | - |
| Critical Hdwy Stg 2 | 5.41 | - | - | - | - | - |
| Follow-up Hdwy | 3.509 | 3.309 | - | - | 2.218 | - |
| Pot Cap-1 Maneuver | 155 | 663 | - | - | 1152 | - |
| Stage 1 | 688 | - | - | - | - | - |
| Stage 2 | 352 | - | - | - | - | - |
| Platoon blocked, % | - | - | - | - | - | - |
| Mov Cap-1 Maneuver | 146 | 661 | - | - | 1149 | - |
| Mov Cap-2 Maneuver | 260 | - | - | - | - | - |
| Stage 1 | 686 | - | - | - | - | - |
| Stage 2 | 332 | - | - | - | - | - |
| Approach | WB | NB | SB | | | |
| HCM Control Delay, s | 14.9 | 0 | 0.6 | | | |
| HCM LOS | B | | | | | |
| Minor Lane/Major Mvmt | NBT | NBR | WBLn1 | SBL | SBT | |
| Capacity (veh/h) | - | - | 411 | 1149 | - | |
| HCM Lane V/C Ratio | - | - | 0.116 | 0.059 | - | |
| HCM Control Delay (s) | - | - | 14.9 | 8.3 | - | |
| HCM Lane LOS | - | - | B | A | - | |
| HCM 95th %tile Q(veh) | - | - | 0.4 | 0.2 | - | |

Intersection

Int Delay, s/veh 2.4

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|--------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Lane Configurations | ↖ ↗ | ↖ ↗ | ↖ ↗ | ↖ ↗ | ↖ ↗ | ↖ ↗ | ↖ ↗ | ↖ ↗ | ↖ ↗ | ↖ ↗ | ↖ ↗ | ↖ ↗ |
| Traffic Vol, veh/h | 14 | 2 | 10 | 8 | 1 | 10 | 31 | 278 | 43 | 89 | 354 | 10 |
| Future Vol, veh/h | 14 | 2 | 10 | 8 | 1 | 10 | 31 | 278 | 43 | 89 | 354 | 10 |
| Conflicting Peds, #/hr | 11 | 0 | 3 | 3 | 0 | 11 | 0 | 0 | 7 | 7 | 0 | 0 |
| Sign Control | Stop | Stop | Stop | Stop | Stop | Stop | Free | Free | Free | Free | Free | Free |
| RT Channelized | - | - | None |
| Storage Length | 40 | - | - | 40 | - | - | 100 | - | - | 100 | - | - |
| Veh in Median Storage, # | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Grade, % | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Peak Hour Factor | 65 | 65 | 65 | 68 | 80 | 68 | 88 | 88 | 88 | 90 | 90 | 90 |
| Heavy Vehicles, % | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 2 | 2 | 2 |
| Mvmt Flow | 22 | 3 | 15 | 12 | 1 | 15 | 35 | 316 | 49 | 99 | 393 | 11 |

| Major/Minor | Minor2 | Minor1 | | | Major1 | | | Major2 | | | | |
|----------------------|--------|--------|-----|------|--------|-----|-------|--------|---|-------|---|---|
| Conflicting Flow All | 1027 | 1039 | 402 | 1027 | 1020 | 359 | 404 | 0 | 0 | 372 | 0 | 0 |
| Stage 1 | 597 | 597 | - | 418 | 418 | - | - | - | - | - | - | - |
| Stage 2 | 430 | 442 | - | 609 | 602 | - | - | - | - | - | - | - |
| Critical Hdwy | 7.1 | 6.5 | 6.2 | 7.1 | 6.5 | 6.2 | 4.11 | - | - | 4.12 | - | - |
| Critical Hdwy Stg 1 | 6.1 | 5.5 | - | 6.1 | 5.5 | - | - | - | - | - | - | - |
| Critical Hdwy Stg 2 | 6.1 | 5.5 | - | 6.1 | 5.5 | - | - | - | - | - | - | - |
| Follow-up Hdwy | 3.5 | 4 | 3.3 | 3.5 | 4 | 3.3 | 2.209 | - | - | 2.218 | - | - |
| Pot Cap-1 Maneuver | 215 | 232 | 653 | 215 | 239 | 690 | 1160 | - | - | 1186 | - | - |
| Stage 1 | 493 | 495 | - | 616 | 594 | - | - | - | - | - | - | - |
| Stage 2 | 607 | 580 | - | 486 | 492 | - | - | - | - | - | - | - |
| Platoon blocked, % | | | | | | | | - | - | - | - | - |
| Mov Cap-1 Maneuver | 189 | 205 | 651 | 188 | 211 | 678 | 1160 | - | - | 1178 | - | - |
| Mov Cap-2 Maneuver | 189 | 205 | - | 188 | 211 | - | - | - | - | - | - | - |
| Stage 1 | 478 | 453 | - | 593 | 572 | - | - | - | - | - | - | - |
| Stage 2 | 569 | 559 | - | 430 | 451 | - | - | - | - | - | - | - |

| Approach | EB | WB | | | NB | | | SB | | | | |
|-----------------------|------|------|-----|-------|-------|-------|-------|-------|-----|-----|--|--|
| HCM Control Delay, s | 20.2 | 17.3 | | | 0.7 | | | 1.6 | | | | |
| HCM LOS | C | C | | | | | | | | | | |
| Minor Lane/Major Mvmt | NBL | NBT | NBR | EBLn1 | EBLn2 | WBLn1 | WBLn2 | SBL | SBT | SBR | | |
| Capacity (veh/h) | 1160 | - | - | 189 | 478 | 188 | 578 | 1178 | - | - | | |
| HCM Lane V/C Ratio | 0.03 | - | - | 0.114 | 0.039 | 0.063 | 0.028 | 0.084 | - | - | | |
| HCM Control Delay (s) | 8.2 | - | - | 26.5 | 12.8 | 25.4 | 11.4 | 8.3 | - | - | | |
| HCM Lane LOS | A | - | - | D | B | D | B | A | - | - | | |
| HCM 95th %tile Q(veh) | 0.1 | - | - | 0.4 | 0.1 | 0.2 | 0.1 | 0.3 | - | - | | |

Intersection

Intersection Delay, s/veh 8

Intersection LOS A

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|----------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Lane Configurations | | ↔ | | | ↔ | | | ↔ | | | ↔ | |
| Traffic Vol, veh/h | 40 | 26 | 5 | 2 | 21 | 29 | 7 | 66 | 3 | 20 | 16 | 20 |
| Future Vol, veh/h | 40 | 26 | 5 | 2 | 21 | 29 | 7 | 66 | 3 | 20 | 16 | 20 |
| Peak Hour Factor | 0.77 | 0.77 | 0.77 | 0.93 | 0.93 | 0.93 | 0.71 | 0.71 | 0.71 | 0.62 | 0.62 | 0.62 |
| Heavy Vehicles, % | 6 | 6 | 6 | 8 | 8 | 8 | 0 | 0 | 0 | 10 | 10 | 10 |
| Mvmt Flow | 52 | 34 | 6 | 2 | 23 | 31 | 10 | 93 | 4 | 32 | 26 | 32 |
| Number of Lanes | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 |
| Approach | EB | | | WB | | | NB | | | SB | | |
| Opposing Approach | WB | | | EB | | | SB | | | NB | | |
| Opposing Lanes | 1 | | | 1 | | | 1 | | | 1 | | |
| Conflicting Approach Left | SB | | | NB | | | EB | | | WB | | |
| Conflicting Lanes Left | 1 | | | 1 | | | 1 | | | 1 | | |
| Conflicting Approach Right | NB | | | SB | | | WB | | | EB | | |
| Conflicting Lanes Right | 1 | | | 1 | | | 1 | | | 1 | | |
| HCM Control Delay | 8.2 | | | 7.6 | | | 8 | | | 7.9 | | |
| HCM LOS | A | | | A | | | A | | | A | | |

| Lane | NBLn1 | EBLn1 | WBLn1 | SBLn1 |
|------------------------|-------|-------|-------|-------|
| Vol Left, % | 9% | 56% | 4% | 36% |
| Vol Thru, % | 87% | 37% | 40% | 29% |
| Vol Right, % | 4% | 7% | 56% | 36% |
| Sign Control | Stop | Stop | Stop | Stop |
| Traffic Vol by Lane | 76 | 71 | 52 | 56 |
| LT Vol | 7 | 40 | 2 | 20 |
| Through Vol | 66 | 26 | 21 | 16 |
| RT Vol | 3 | 5 | 29 | 20 |
| Lane Flow Rate | 107 | 92 | 56 | 90 |
| Geometry Grp | 1 | 1 | 1 | 1 |
| Degree of Util (X) | 0.129 | 0.117 | 0.066 | 0.11 |
| Departure Headway (Hd) | 4.337 | 4.581 | 4.263 | 4.387 |
| Convergence, Y/N | Yes | Yes | Yes | Yes |
| Cap | 830 | 785 | 843 | 820 |
| Service Time | 2.349 | 2.595 | 2.278 | 2.399 |
| HCM Lane V/C Ratio | 0.129 | 0.117 | 0.066 | 0.11 |
| HCM Control Delay | 8 | 8.2 | 7.6 | 7.9 |
| HCM Lane LOS | A | A | A | A |
| HCM 95th-tile Q | 0.4 | 0.4 | 0.2 | 0.4 |

| Lane Group | EBL | EBT | EBR | WBL | WBT | NBL | NBT | NBR | SBL | SBT | SBR |
|----------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Lane Configurations | ↑ | ↑↑↑ | ↑ | ↑↑ | ↑↑↑ | ↑ | ↑ | ↑↑ | ↑ | ↑ | ↑ |
| Traffic Volume (vph) | 39 | 1701 | 87 | 322 | 1572 | 131 | 98 | 599 | 205 | 155 | 97 |
| Future Volume (vph) | 39 | 1701 | 87 | 322 | 1572 | 131 | 98 | 599 | 205 | 155 | 97 |
| Turn Type | Prot | NA | Perm | Prot | NA | pm+pt | NA | Perm | pm+pt | NA | pm+ov |
| Protected Phases | 5 | 2 | | 1 | 6 | 3 | 8 | | 7 | 4 | 5 |
| Permitted Phases | | | | | | | 8 | | 8 | 4 | |
| Detector Phase | 5 | 2 | 2 | 1 | 6 | 3 | 8 | 8 | 7 | 4 | 5 |
| Switch Phase | | | | | | | | | | | |
| Minimum Initial (s) | 4.0 | 10.0 | 10.0 | 4.0 | 10.0 | 3.0 | 5.0 | 5.0 | 3.0 | 5.0 | 4.0 |
| Minimum Split (s) | 9.5 | 29.0 | 29.0 | 9.5 | 24.0 | 9.5 | 38.0 | 38.0 | 9.5 | 34.0 | 9.5 |
| Total Split (s) | 14.0 | 47.0 | 47.0 | 26.0 | 59.0 | 23.0 | 26.0 | 26.0 | 23.0 | 26.0 | 14.0 |
| Total Split (%) | 11.5% | 38.5% | 38.5% | 21.3% | 48.4% | 18.9% | 21.3% | 21.3% | 18.9% | 21.3% | 11.5% |
| Yellow Time (s) | 3.0 | 4.0 | 4.0 | 3.0 | 4.0 | 3.0 | 4.0 | 4.0 | 3.0 | 4.0 | 3.0 |
| All-Red Time (s) | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 1.0 | 2.0 | 2.0 | 1.0 | 2.0 | 2.0 |
| Lost Time Adjust (s) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Lost Time (s) | 5.0 | 6.0 | 6.0 | 5.0 | 6.0 | 4.0 | 6.0 | 6.0 | 4.0 | 6.0 | 5.0 |
| Lead/Lag | Lead | Lag | Lag | Lead | Lag | Lead | Lag | Lag | Lead | Lag | Lead |
| Lead-Lag Optimize? | Yes |
| Recall Mode | None | C-Max | C-Max | None | C-Max | None | None | None | None | None | None |
| Act Effect Green (s) | 6.7 | 54.6 | 54.6 | 15.9 | 63.7 | 27.2 | 13.6 | 13.6 | 36.4 | 18.9 | 26.6 |
| Actuated g/C Ratio | 0.05 | 0.45 | 0.45 | 0.13 | 0.52 | 0.22 | 0.11 | 0.11 | 0.30 | 0.15 | 0.22 |
| v/c Ratio | 0.44 | 0.82 | 0.12 | 0.76 | 0.67 | 0.47 | 0.53 | 0.87 | 0.62 | 0.64 | 0.52 |

Intersection Summary

Cycle Length: 122

Actuated Cycle Length: 122

Offset: 45 (37%), Referenced to phase 2:EBT and 6:WBT, Start of Green

Natural Cycle: 110

Control Type: Actuated-Coordinated

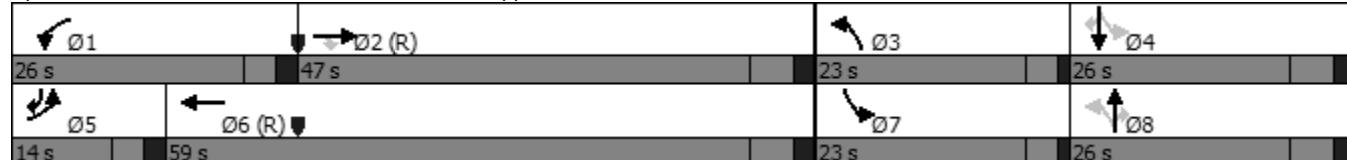
Maximum v/c Ratio: 0.87

Intersection Signal Delay: 32.4

Intersection Capacity Utilization 79.3% ICU Level of Service D

Analysis Period (min) 15

Splits and Phases: 1: Potomac Street & Mississippi Avenue





| Lane Group | EBL | EBT | EBR | WBL | WBT | NBL | NBT | NBR | SBL | SBT | SBR |
|-------------------------|------|------|------|------|------|------|------|------|------|------|------|
| Lane Group Flow (vph) | 43 | 1869 | 96 | 339 | 1752 | 149 | 111 | 681 | 244 | 185 | 243 |
| v/c Ratio | 0.44 | 0.82 | 0.12 | 0.76 | 0.67 | 0.47 | 0.53 | 0.87 | 0.62 | 0.64 | 0.52 |
| Control Delay | 69.1 | 35.0 | 1.0 | 62.2 | 24.4 | 36.4 | 59.3 | 23.6 | 40.7 | 57.9 | 17.2 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay | 69.1 | 35.0 | 1.0 | 62.2 | 24.4 | 36.4 | 59.3 | 23.6 | 40.7 | 57.9 | 17.2 |
| Queue Length 50th (ft) | 33 | 471 | 0 | 134 | 365 | 88 | 84 | 61 | 154 | 137 | 54 |
| Queue Length 95th (ft) | 72 | #698 | 7 | 178 | 491 | 128 | 133 | 124 | 194 | 192 | 0 |
| Internal Link Dist (ft) | | | 1218 | | | 819 | | 404 | | | 347 |
| Turn Bay Length (ft) | 135 | | 430 | 400 | | 160 | | 200 | 50 | | 50 |
| Base Capacity (vph) | 130 | 2273 | 770 | 590 | 2629 | 420 | 308 | 903 | 408 | 327 | 491 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.33 | 0.82 | 0.12 | 0.57 | 0.67 | 0.35 | 0.36 | 0.75 | 0.60 | 0.57 | 0.49 |

Intersection Summary

95th percentile volume exceeds capacity, queue may be longer.

Queue shown is maximum after two cycles.

HCM 6th Signalized Intersection Summary
05/17/2022

1: Potomac Street & Mississippi Avenue
2025 Bkgd + Project - PM Peak Hour

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|----------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Lane Configurations | ↑ | ↑↑↑ | ↑ | ↑↑ | ↑↑↑ | | ↑ | ↑ | ↑↑ | ↑ | ↑ | ↑ |
| Traffic Volume (veh/h) | 39 | 1701 | 87 | 322 | 1572 | 92 | 131 | 98 | 599 | 205 | 155 | 97 |
| Future Volume (veh/h) | 39 | 1701 | 87 | 322 | 1572 | 92 | 131 | 98 | 599 | 205 | 155 | 97 |
| Initial Q (Q _b), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | 0.99 | 1.00 | | 1.00 | 0.99 | | 0.99 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | No | | | No | | | No | | | No | | |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1885 | 1885 | 1885 | 1885 | 1885 | 1885 |
| Adj Flow Rate, veh/h | 43 | 1869 | 0 | 339 | 1655 | 97 | 149 | 111 | 0 | 244 | 185 | 242 |
| Peak Hour Factor | 0.91 | 0.91 | 0.91 | 0.95 | 0.95 | 0.95 | 0.88 | 0.88 | 0.88 | 0.84 | 0.84 | 0.40 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| Cap, veh/h | 55 | 2361 | | 397 | 2693 | 158 | 286 | 222 | | 378 | 306 | 307 |
| Arrive On Green | 0.03 | 0.46 | 0.00 | 0.11 | 0.55 | 0.55 | 0.09 | 0.12 | 0.00 | 0.13 | 0.16 | 0.16 |
| Sat Flow, veh/h | 1781 | 5106 | 1585 | 3456 | 4930 | 289 | 1795 | 1885 | 2812 | 1795 | 1885 | 1586 |
| Grp Volume(v), veh/h | 43 | 1869 | 0 | 339 | 1142 | 610 | 149 | 111 | 0 | 244 | 185 | 242 |
| Grp Sat Flow(s), veh/h/ln | 1781 | 1702 | 1585 | 1728 | 1702 | 1815 | 1795 | 1885 | 1406 | 1795 | 1885 | 1586 |
| Q Serve(g_s), s | 2.9 | 37.9 | 0.0 | 11.7 | 28.0 | 28.0 | 8.8 | 6.7 | 0.0 | 14.1 | 11.1 | 17.7 |
| Cycle Q Clear(g_c), s | 2.9 | 37.9 | 0.0 | 11.7 | 28.0 | 28.0 | 8.8 | 6.7 | 0.0 | 14.1 | 11.1 | 17.7 |
| Prop In Lane | 1.00 | | 1.00 | 1.00 | | 0.16 | 1.00 | | 1.00 | 1.00 | 1.00 | 1.00 |
| Lane Grp Cap(c), veh/h | 55 | 2361 | | 397 | 1860 | 991 | 286 | 222 | | 378 | 306 | 307 |
| V/C Ratio(X) | 0.78 | 0.79 | | 0.85 | 0.61 | 0.61 | 0.52 | 0.50 | | 0.65 | 0.60 | 0.79 |
| Avail Cap(c_a), veh/h | 131 | 2361 | | 595 | 1860 | 991 | 407 | 309 | | 419 | 309 | 309 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(l) | 1.00 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 58.7 | 27.8 | 0.0 | 53.0 | 18.9 | 18.9 | 42.1 | 50.4 | 0.0 | 38.3 | 47.5 | 46.8 |
| Incr Delay (d2), s/veh | 8.5 | 2.8 | 0.0 | 5.1 | 1.5 | 2.9 | 0.5 | 0.6 | 0.0 | 2.0 | 2.3 | 11.7 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%), veh/ln | 1.4 | 15.2 | 0.0 | 5.3 | 10.7 | 11.8 | 3.9 | 3.2 | 0.0 | 6.5 | 5.5 | 8.0 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 67.2 | 30.6 | 0.0 | 58.1 | 20.4 | 21.8 | 42.6 | 51.1 | 0.0 | 40.3 | 49.8 | 58.5 |
| LnGrp LOS | E | C | | E | C | C | D | D | | D | D | E |
| Approach Vol, veh/h | 1912 | | | 2091 | | | 260 | | | 671 | | |
| Approach Delay, s/veh | 31.4 | | | 26.9 | | | 46.2 | | | 49.5 | | |
| Approach LOS | C | | | C | | | D | | | D | | |
| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | | | |
| Phs Duration (G+Y+Rc), s | 19.0 | 62.4 | 14.8 | 25.8 | 8.8 | 72.7 | 20.2 | 20.4 | | | | |
| Change Period (Y+Rc), s | 5.0 | 6.0 | 4.0 | 6.0 | 5.0 | 6.0 | 4.0 | 6.0 | | | | |
| Max Green Setting (Gmax), s | 21.0 | 41.0 | 19.0 | 20.0 | 9.0 | 53.0 | 19.0 | 20.0 | | | | |
| Max Q Clear Time (g_c+l1), s | 13.7 | 39.9 | 10.8 | 19.7 | 4.9 | 30.0 | 16.1 | 8.7 | | | | |
| Green Ext Time (p_c), s | 0.3 | 1.0 | 0.1 | 0.0 | 0.0 | 13.0 | 0.1 | 0.2 | | | | |

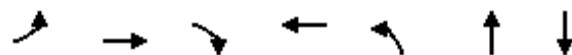
Intersection Summary

HCM 6th Ctrl Delay 32.8
HCM 6th LOS C

Notes

User approved pedestrian interval to be less than phase max green.

Unsignalized Delay for [NBR, EBR] is excluded from calculations of the approach delay and intersection delay.



| Lane Group | EBL | EBT | EBR | WBT | NBL | NBT | SBT |
|----------------------|-------|-------|-------|-------|-------|-------|-------|
| Lane Configurations | | | | | | | |
| Traffic Volume (vph) | 98 | 0 | 13 | 0 | 23 | 740 | 350 |
| Future Volume (vph) | 98 | 0 | 13 | 0 | 23 | 740 | 350 |
| Turn Type | Perm | NA | Perm | NA | Perm | NA | NA |
| Protected Phases | | 4 | | 8 | | 2 | 6 |
| Permitted Phases | 4 | | 4 | | 2 | | |
| Detector Phase | 4 | 4 | 4 | 8 | 2 | 2 | 6 |
| Switch Phase | | | | | | | |
| Minimum Initial (s) | 5.0 | 5.0 | 5.0 | 5.0 | 10.0 | 10.0 | 10.0 |
| Minimum Split (s) | 23.0 | 23.0 | 23.0 | 24.0 | 18.0 | 18.0 | 22.0 |
| Total Split (s) | 33.0 | 33.0 | 33.0 | 21.0 | 78.0 | 78.0 | 78.0 |
| Total Split (%) | 25.0% | 25.0% | 25.0% | 15.9% | 59.1% | 59.1% | 59.1% |
| Yellow Time (s) | 3.0 | 3.0 | 3.0 | 3.0 | 4.0 | 4.0 | 4.0 |
| All-Red Time (s) | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 |
| Lost Time Adjust (s) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Lost Time (s) | | 5.0 | 5.0 | 6.0 | 6.0 | 6.0 | |
| Lead/Lag | | | | | | | |
| Lead-Lag Optimize? | | | | | | | |
| Recall Mode | None | None | None | None | C-Min | C-Min | C-Min |
| Act Effect Green (s) | 42.2 | 42.2 | 5.0 | 76.8 | 76.8 | 76.8 | |
| Actuated g/C Ratio | 0.32 | 0.32 | 0.04 | 0.58 | 0.58 | 0.58 | |
| v/c Ratio | 2.21 | 0.03 | 0.03 | 0.07 | 0.83 | 0.45 | |

Intersection Summary

Cycle Length: 132

Actuated Cycle Length: 132

Offset: 38 (29%), Referenced to phase 2:NBTL and 6:SBTL, Start of Yellow

Natural Cycle: 100

Control Type: Actuated-Coordinated

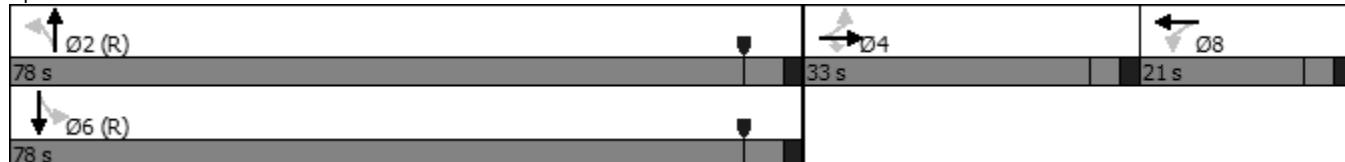
Maximum v/c Ratio: 2.21

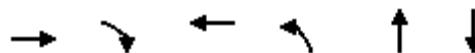
Intersection Signal Delay: 72.5

Intersection Capacity Utilization 60.6%

Analysis Period (min) 15

Splits and Phases: 2: Potomac Street & Louisiana Avenue





| Lane Group | EBT | EBR | WBT | NBL | NBT | SBT |
|-------------------------|-------|------|------|------|------|------|
| Lane Group Flow (vph) | 124 | 16 | 8 | 28 | 894 | 466 |
| v/c Ratio | 2.21 | 0.03 | 0.03 | 0.07 | 0.83 | 0.45 |
| Control Delay | 623.7 | 0.1 | 0.0 | 11.2 | 29.4 | 16.0 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay | 623.7 | 0.1 | 0.0 | 11.2 | 29.4 | 16.0 |
| Queue Length 50th (ft) | ~164 | 0 | 0 | 11 | 626 | 221 |
| Queue Length 95th (ft) | #276 | 0 | 0 | 20 | 585 | 252 |
| Internal Link Dist (ft) | 715 | | 260 | | 100 | 235 |
| Turn Bay Length (ft) | | | | 40 | | |
| Base Capacity (vph) | 56 | 535 | 397 | 428 | 1086 | 1050 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 2.21 | 0.03 | 0.02 | 0.07 | 0.82 | 0.44 |

Intersection Summary

- ~ Volume exceeds capacity, queue is theoretically infinite.
Queue shown is maximum after two cycles.
- # 95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

HCM 6th Signalized Intersection Summary
05/17/2022

2: Potomac Street & Louisiana Avenue
2025 Bkgd + Project - PM Peak Hour

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|----------------------------------|-------|------|------|------|-------|------|------|------|------|------|------|------|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (veh/h) | 98 | 0 | 13 | 0 | 0 | 2 | 23 | 740 | 2 | 0 | 350 | 93 |
| Future Volume (veh/h) | 98 | 0 | 13 | 0 | 0 | 2 | 23 | 740 | 2 | 0 | 350 | 93 |
| Initial Q (Q _b), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ped-Bike Adj(A_pbT) | 0.99 | | 0.99 | 1.00 | | 0.99 | 1.00 | | 0.97 | 1.00 | | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1900 | 1900 | 1900 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 |
| Adj Flow Rate, veh/h | 124 | 0 | 16 | 0 | 0 | 8 | 28 | 892 | 2 | 0 | 368 | 98 |
| Peak Hour Factor | 0.79 | 0.79 | 0.79 | 0.25 | 0.25 | 0.25 | 0.83 | 0.83 | 0.83 | 0.95 | 0.95 | 0.95 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 0 | 0 | 0 | 2 | 2 | 2 | 2 | 2 | 2 |
| Cap, veh/h | 204 | 0 | 175 | 0 | 0 | 179 | 737 | 1501 | 3 | 55 | 1144 | 305 |
| Arrive On Green | 0.11 | 0.00 | 0.11 | 0.00 | 0.00 | 0.11 | 0.80 | 0.80 | 0.80 | 0.00 | 0.80 | 0.80 |
| Sat Flow, veh/h | 1340 | 0 | 1564 | 0 | 0 | 1597 | 926 | 1865 | 4 | 622 | 1422 | 379 |
| Grp Volume(v), veh/h | 124 | 0 | 16 | 0 | 0 | 8 | 28 | 0 | 894 | 0 | 0 | 466 |
| Grp Sat Flow(s), veh/h/ln | 1340 | 0 | 1564 | 0 | 0 | 1597 | 926 | 0 | 1869 | 622 | 0 | 1800 |
| Q Serve(g_s), s | 11.5 | 0.0 | 1.2 | 0.0 | 0.0 | 0.6 | 1.1 | 0.0 | 23.6 | 0.0 | 0.0 | 9.0 |
| Cycle Q Clear(g_c), s | 12.1 | 0.0 | 1.2 | 0.0 | 0.0 | 0.6 | 10.1 | 0.0 | 23.6 | 0.0 | 0.0 | 9.0 |
| Prop In Lane | 1.00 | | 1.00 | 0.00 | | 1.00 | 1.00 | | 0.00 | 1.00 | | 0.21 |
| Lane Grp Cap(c), veh/h | 204 | 0 | 175 | 0 | 0 | 179 | 737 | 0 | 1505 | 55 | 0 | 1449 |
| V/C Ratio(X) | 0.61 | 0.00 | 0.09 | 0.00 | 0.00 | 0.04 | 0.04 | 0.00 | 0.59 | 0.00 | 0.00 | 0.32 |
| Avail Cap(c_a), veh/h | 344 | 0 | 332 | 0 | 0 | 194 | 737 | 0 | 1505 | 55 | 0 | 1449 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(l) | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 1.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 1.00 |
| Uniform Delay (d), s/veh | 57.7 | 0.0 | 52.6 | 0.0 | 0.0 | 52.3 | 4.7 | 0.0 | 4.8 | 0.0 | 0.0 | 3.4 |
| Incr Delay (d2), s/veh | 1.1 | 0.0 | 0.1 | 0.0 | 0.0 | 0.1 | 0.1 | 0.0 | 1.7 | 0.0 | 0.0 | 0.6 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%), veh/ln | 4.2 | 0.0 | 0.5 | 0.0 | 0.0 | 0.2 | 0.2 | 0.0 | 8.1 | 0.0 | 0.0 | 2.9 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 58.8 | 0.0 | 52.7 | 0.0 | 0.0 | 52.4 | 4.8 | 0.0 | 6.5 | 0.0 | 0.0 | 4.0 |
| LnGrp LOS | E | A | D | A | A | D | A | A | A | A | A | A |
| Approach Vol, veh/h | 140 | | | | 8 | | | 922 | | | 466 | |
| Approach Delay, s/veh | 58.1 | | | | 52.4 | | | 6.5 | | | 4.0 | |
| Approach LOS | E | | | | D | | | A | | | A | |
| Timer - Assigned Phs | 2 | | 4 | | 6 | | 8 | | | | | |
| Phs Duration (G+Y+Rc), s | 112.2 | | 19.8 | | 112.2 | | 19.8 | | | | | |
| Change Period (Y+Rc), s | 6.0 | | 5.0 | | 6.0 | | 5.0 | | | | | |
| Max Green Setting (Gmax), s | 72.0 | | 28.0 | | 72.0 | | 16.0 | | | | | |
| Max Q Clear Time (g_c+l1), s | 25.6 | | 14.1 | | 11.0 | | 2.6 | | | | | |
| Green Ext Time (p_c), s | 19.2 | | 0.4 | | 7.3 | | 0.0 | | | | | |

Intersection Summary

HCM 6th Ctrl Delay 10.7
HCM 6th LOS B

Notes

User approved pedestrian interval to be less than phase max green.

Intersection

Int Delay, s/veh 2.2

| Movement | WBL | WBR | NBT | NBR | SBL | SBT |
|--------------------------|------|------|------|------|------|------|
| Lane Configurations | ↔ | ↑ | ↔ | ↑ | ↑ | ↑ |
| Traffic Vol, veh/h | 37 | 70 | 695 | 20 | 36 | 327 |
| Future Vol, veh/h | 37 | 70 | 695 | 20 | 36 | 327 |
| Conflicting Peds, #/hr | 1 | 1 | 0 | 11 | 11 | 0 |
| Sign Control | Stop | Stop | Free | Free | Free | Free |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | 0 | - | - | - | 30 | - |
| Veh in Median Storage, # | 0 | - | 0 | - | - | 0 |
| Grade, % | 0 | - | 0 | - | - | 0 |
| Peak Hour Factor | 90 | 90 | 82 | 82 | 89 | 89 |
| Heavy Vehicles, % | 0 | 0 | 2 | 2 | 3 | 3 |
| Mvmt Flow | 41 | 78 | 848 | 24 | 40 | 367 |

| Major/Minor | Minor1 | Major1 | Major2 | | |
|----------------------|--------|--------|--------|---|-------|
| Conflicting Flow All | 1319 | 872 | 0 | 0 | 883 |
| Stage 1 | 871 | - | - | - | - |
| Stage 2 | 448 | - | - | - | - |
| Critical Hdwy | 6.4 | 6.2 | - | - | 4.13 |
| Critical Hdwy Stg 1 | 5.4 | - | - | - | - |
| Critical Hdwy Stg 2 | 5.4 | - | - | - | - |
| Follow-up Hdwy | 3.5 | 3.3 | - | - | 2.227 |
| Pot Cap-1 Maneuver | 175 | 353 | - | - | 762 |
| Stage 1 | 413 | - | - | - | - |
| Stage 2 | 648 | - | - | - | - |
| Platoon blocked, % | - | - | - | - | - |
| Mov Cap-1 Maneuver | 164 | 349 | - | - | 754 |
| Mov Cap-2 Maneuver | 294 | - | - | - | - |
| Stage 1 | 409 | - | - | - | - |
| Stage 2 | 613 | - | - | - | - |

| Approach | WB | NB | SB | |
|----------------------|------|----|----|--|
| HCM Control Delay, s | 22.1 | 0 | 1 | |
| HCM LOS | C | | | |

| Minor Lane/Major Mvmt | NBT | NBR | WBLn1 | SBL | SBT |
|-----------------------|-----|-----|-------|-------|-----|
| Capacity (veh/h) | - | - | 328 | 754 | - |
| HCM Lane V/C Ratio | - | - | 0.362 | 0.054 | - |
| HCM Control Delay (s) | - | - | 22.1 | 10 | - |
| HCM Lane LOS | - | - | C | B | - |
| HCM 95th %tile Q(veh) | - | - | 1.6 | 0.2 | - |

Intersection

Int Delay, s/veh 3.3

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|--------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Lane Configurations | ↖ ↗ | ↗ ↗ | ↖ ↗ | ↖ ↗ | ↖ ↗ | ↖ ↗ | ↖ ↗ | ↖ ↗ | ↖ ↗ | ↖ ↗ | ↖ ↗ | ↖ ↗ |
| Traffic Vol, veh/h | 35 | 3 | 25 | 21 | 3 | 53 | 18 | 338 | 7 | 16 | 290 | 13 |
| Future Vol, veh/h | 35 | 3 | 25 | 21 | 3 | 53 | 18 | 338 | 7 | 16 | 290 | 13 |
| Conflicting Peds, #/hr | 3 | 0 | 2 | 2 | 0 | 3 | 1 | 0 | 3 | 3 | 0 | 1 |
| Sign Control | Stop | Stop | Stop | Stop | Stop | Stop | Free | Free | Free | Free | Free | Free |
| RT Channelized | - | - | None |
| Storage Length | 40 | - | - | 40 | - | - | 100 | - | - | 100 | - | - |
| Veh in Median Storage, # | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Grade, % | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Peak Hour Factor | 78 | 78 | 78 | 76 | 76 | 76 | 94 | 94 | 94 | 98 | 98 | 98 |
| Heavy Vehicles, % | 2 | 2 | 2 | 0 | 0 | 0 | 2 | 2 | 2 | 1 | 1 | 1 |
| Mvmt Flow | 45 | 4 | 32 | 28 | 4 | 70 | 19 | 360 | 7 | 16 | 296 | 13 |

| Major/Minor | Minor2 | Minor1 | | | Major1 | | | Major2 | | | | |
|----------------------|--------|--------|-------|-----|--------|-----|-------|--------|---|-------|---|---|
| Conflicting Flow All | 778 | 744 | 306 | 760 | 747 | 370 | 310 | 0 | 0 | 370 | 0 | 0 |
| Stage 1 | 336 | 336 | - | 405 | 405 | - | - | - | - | - | - | - |
| Stage 2 | 442 | 408 | - | 355 | 342 | - | - | - | - | - | - | - |
| Critical Hdwy | 7.12 | 6.52 | 6.22 | 7.1 | 6.5 | 6.2 | 4.12 | - | - | 4.11 | - | - |
| Critical Hdwy Stg 1 | 6.12 | 5.52 | - | 6.1 | 5.5 | - | - | - | - | - | - | - |
| Critical Hdwy Stg 2 | 6.12 | 5.52 | - | 6.1 | 5.5 | - | - | - | - | - | - | - |
| Follow-up Hdwy | 3.518 | 4.018 | 3.318 | 3.5 | 4 | 3.3 | 2.218 | - | - | 2.209 | - | - |
| Pot Cap-1 Maneuver | 314 | 343 | 734 | 325 | 344 | 680 | 1250 | - | - | 1194 | - | - |
| Stage 1 | 678 | 642 | - | 626 | 602 | - | - | - | - | - | - | - |
| Stage 2 | 594 | 597 | - | 666 | 642 | - | - | - | - | - | - | - |
| Platoon blocked, % | | | | | | | | - | - | - | - | - |
| Mov Cap-1 Maneuver | 272 | 332 | 732 | 300 | 333 | 676 | 1249 | - | - | 1191 | - | - |
| Mov Cap-2 Maneuver | 272 | 332 | - | 300 | 333 | - | - | - | - | - | - | - |
| Stage 1 | 667 | 633 | - | 615 | 591 | - | - | - | - | - | - | - |
| Stage 2 | 520 | 586 | - | 623 | 633 | - | - | - | - | - | - | - |

| Approach | EB | WB | | | NB | | | SB | | | | |
|-----------------------|-------|------|-----|-------|-------|-------|-------|-------|-----|-----|--|--|
| HCM Control Delay, s | 16.4 | 13.2 | | | 0.4 | | | 0.4 | | | | |
| HCM LOS | C | B | | | | | | | | | | |
| Minor Lane/Major Mvmt | NBL | NBT | NBR | EBLn1 | EBLn2 | WBLn1 | WBLn2 | SBL | SBT | SBR | | |
| Capacity (veh/h) | 1249 | - | - | 272 | 648 | 300 | 641 | 1191 | - | - | | |
| HCM Lane V/C Ratio | 0.015 | - | - | 0.165 | 0.055 | 0.092 | 0.115 | 0.014 | - | - | | |
| HCM Control Delay (s) | 7.9 | - | - | 20.8 | 10.9 | 18.2 | 11.3 | 8.1 | - | - | | |
| HCM Lane LOS | A | - | - | C | B | C | B | A | - | - | | |
| HCM 95th %tile Q(veh) | 0 | - | - | 0.6 | 0.2 | 0.3 | 0.4 | 0 | - | - | | |

Intersection

Intersection Delay, s/veh 7.9

Intersection LOS A

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|----------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Lane Configurations | | ↔ | | | ↔ | | | ↔ | | | ↔ | |
| Traffic Vol, veh/h | 19 | 15 | 10 | 3 | 20 | 21 | 4 | 43 | 2 | 19 | 61 | 32 |
| Future Vol, veh/h | 19 | 15 | 10 | 3 | 20 | 21 | 4 | 43 | 2 | 19 | 61 | 32 |
| Peak Hour Factor | 0.65 | 0.65 | 0.65 | 0.58 | 0.58 | 0.58 | 0.87 | 0.87 | 0.87 | 0.81 | 0.81 | 0.81 |
| Heavy Vehicles, % | 5 | 5 | 5 | 7 | 7 | 7 | 0 | 0 | 0 | 2 | 2 | 2 |
| Mvmt Flow | 29 | 23 | 15 | 5 | 34 | 36 | 5 | 49 | 2 | 23 | 75 | 40 |
| Number of Lanes | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 |
| Approach | EB | | | WB | | | NB | | | SB | | |
| Opposing Approach | WB | | | EB | | | SB | | | NB | | |
| Opposing Lanes | 1 | | | 1 | | | 1 | | | 1 | | |
| Conflicting Approach Left | SB | | | NB | | | EB | | | WB | | |
| Conflicting Lanes Left | 1 | | | 1 | | | 1 | | | 1 | | |
| Conflicting Approach Right | NB | | | SB | | | WB | | | EB | | |
| Conflicting Lanes Right | 1 | | | 1 | | | 1 | | | 1 | | |
| HCM Control Delay | 7.9 | | | 7.7 | | | 7.7 | | | 8 | | |
| HCM LOS | A | | | A | | | A | | | A | | |

| Lane | NBLn1 | EBLn1 | WBLn1 | SBLn1 |
|------------------------|-------|-------|-------|-------|
| Vol Left, % | 8% | 43% | 7% | 17% |
| Vol Thru, % | 88% | 34% | 45% | 54% |
| Vol Right, % | 4% | 23% | 48% | 29% |
| Sign Control | Stop | Stop | Stop | Stop |
| Traffic Vol by Lane | 49 | 44 | 44 | 112 |
| LT Vol | 4 | 19 | 3 | 19 |
| Through Vol | 43 | 15 | 20 | 61 |
| RT Vol | 2 | 10 | 21 | 32 |
| Lane Flow Rate | 56 | 68 | 76 | 138 |
| Geometry Grp | 1 | 1 | 1 | 1 |
| Degree of Util (X) | 0.068 | 0.084 | 0.09 | 0.161 |
| Departure Headway (Hd) | 4.359 | 4.447 | 4.252 | 4.194 |
| Convergence, Y/N | Yes | Yes | Yes | Yes |
| Cap | 823 | 808 | 845 | 860 |
| Service Time | 2.375 | 2.461 | 2.266 | 2.194 |
| HCM Lane V/C Ratio | 0.068 | 0.084 | 0.09 | 0.16 |
| HCM Control Delay | 7.7 | 7.9 | 7.7 | 8 |
| HCM Lane LOS | A | A | A | A |
| HCM 95th-tile Q | 0.2 | 0.3 | 0.3 | 0.6 |

***Intersection Capacity Worksheets:
2040 Background +
Project***

| Lane Group | EBL | EBT | EBR | WBL | WBT | NBL | NBT | NBR | SBL | SBT | SBR |
|----------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Lane Configurations | ↑ | ↑↑↑ | ↑ | ↑↑ | ↑↑↑ | ↑ | ↑ | ↑↑ | ↑ | ↑ | ↑ |
| Traffic Volume (vph) | 30 | 1365 | 159 | 887 | 2000 | 78 | 77 | 351 | 175 | 115 | 80 |
| Future Volume (vph) | 30 | 1365 | 159 | 887 | 2000 | 78 | 77 | 351 | 175 | 115 | 80 |
| Turn Type | Prot | NA | Perm | Prot | NA | pm+pt | NA | Perm | pm+pt | NA | Perm |
| Protected Phases | 5 | 2 | | 1 | 6 | 3 | 8 | | 7 | 4 | |
| Permitted Phases | | | | | | | 8 | | 8 | 4 | |
| Detector Phase | 5 | 2 | 2 | 1 | 6 | 3 | 8 | 8 | 7 | 4 | 4 |
| Switch Phase | | | | | | | | | | | |
| Minimum Initial (s) | 4.0 | 10.0 | 10.0 | 4.0 | 10.0 | 3.0 | 5.0 | 5.0 | 3.0 | 5.0 | 5.0 |
| Minimum Split (s) | 9.5 | 29.0 | 29.0 | 9.5 | 24.0 | 9.5 | 38.0 | 38.0 | 9.5 | 34.0 | 34.0 |
| Total Split (s) | 14.0 | 30.0 | 30.0 | 46.0 | 62.0 | 10.0 | 20.0 | 20.0 | 25.0 | 35.0 | 35.0 |
| Total Split (%) | 11.6% | 24.8% | 24.8% | 38.0% | 51.2% | 8.3% | 16.5% | 16.5% | 20.7% | 28.9% | 28.9% |
| Yellow Time (s) | 3.0 | 4.0 | 4.0 | 3.0 | 4.0 | 3.0 | 4.0 | 4.0 | 3.0 | 4.0 | 4.0 |
| All-Red Time (s) | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 1.0 | 2.0 | 2.0 | 1.0 | 2.0 | 2.0 |
| Lost Time Adjust (s) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Lost Time (s) | 5.0 | 6.0 | 6.0 | 5.0 | 6.0 | 4.0 | 6.0 | 6.0 | 4.0 | 6.0 | 6.0 |
| Lead/Lag | Lead | Lag | Lag | Lead | Lag | Lead | Lag | Lag | Lead | Lag | Lag |
| Lead-Lag Optimize? | Yes |
| Recall Mode | None | C-Max | C-Max | None | C-Max | None | None | None | None | None | None |
| Act Effect Green (s) | 6.3 | 37.5 | 37.5 | 36.9 | 71.9 | 17.6 | 9.8 | 9.8 | 31.6 | 21.6 | 21.6 |
| Actuated g/C Ratio | 0.05 | 0.31 | 0.31 | 0.30 | 0.59 | 0.15 | 0.08 | 0.08 | 0.26 | 0.18 | 0.18 |
| v/c Ratio | 0.36 | 0.94 | 0.28 | 0.91 | 0.74 | 0.41 | 0.55 | 0.66 | 0.53 | 0.37 | 0.21 |

Intersection Summary

Cycle Length: 121

Actuated Cycle Length: 121

Offset: 95 (79%), Referenced to phase 2:EBT and 6:WBT, Start of Green

Natural Cycle: 130

Control Type: Actuated-Coordinated

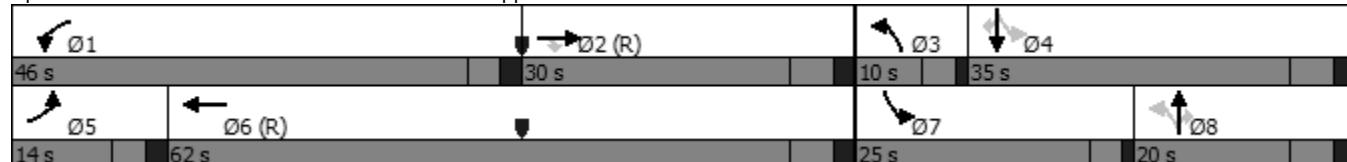
Maximum v/c Ratio: 0.94

Intersection Signal Delay: 36.4

Intersection Capacity Utilization 82.4%

Analysis Period (min) 15

Splits and Phases: 1: Potomac Street & Mississippi Avenue





| Lane Group | EBL | EBT | EBR | WBL | WBT | NBL | NBT | NBR | SBL | SBT | SBR |
|-------------------------|------|------|------|------|------|------|------|------|------|------|------|
| Lane Group Flow (vph) | 33 | 1484 | 173 | 944 | 2213 | 85 | 84 | 382 | 188 | 124 | 86 |
| v/c Ratio | 0.36 | 0.94 | 0.28 | 0.91 | 0.74 | 0.41 | 0.55 | 0.66 | 0.53 | 0.37 | 0.21 |
| Control Delay | 65.5 | 54.4 | 5.7 | 53.5 | 22.4 | 40.4 | 66.5 | 11.1 | 41.0 | 46.0 | 1.2 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay | 65.5 | 54.4 | 5.7 | 53.5 | 22.4 | 40.4 | 66.5 | 11.1 | 41.0 | 46.0 | 1.2 |
| Queue Length 50th (ft) | 25 | 418 | 0 | 361 | 472 | 52 | 64 | 0 | 121 | 88 | 0 |
| Queue Length 95th (ft) | 59 | #680 | 48 | 429 | #721 | 85 | 114 | 49 | 171 | 135 | 0 |
| Internal Link Dist (ft) | | 1218 | | | 819 | | 404 | | | 347 | |
| Turn Bay Length (ft) | 135 | | 430 | 400 | | 160 | | 200 | 50 | | 50 |
| Base Capacity (vph) | 131 | 1574 | 611 | 1152 | 2972 | 212 | 217 | 658 | 394 | 450 | 494 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.25 | 0.94 | 0.28 | 0.82 | 0.74 | 0.40 | 0.39 | 0.58 | 0.48 | 0.28 | 0.17 |

Intersection Summary

95th percentile volume exceeds capacity, queue may be longer.

Queue shown is maximum after two cycles.

HCM 6th Signalized Intersection Summary
05/17/2022

1: Potomac Street & Mississippi Avenue
2040 Bkgd + Project - AM Peak Hour

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|---|------|------|------|------|------|------|------|------|------|------|------|------|
| Lane Configurations | ↑ | ↑↑↑ | ↑ | ↑↑ | ↑↑↑ | | ↑ | ↑ | ↑↑ | ↑ | ↑ | ↑ |
| Traffic Volume (veh/h) | 30 | 1365 | 159 | 887 | 2000 | 80 | 78 | 77 | 351 | 175 | 115 | 80 |
| Future Volume (veh/h) | 30 | 1365 | 159 | 887 | 2000 | 80 | 78 | 77 | 351 | 175 | 115 | 80 |
| Initial Q (Q _b), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ped-Bike Adj(A_pbT) | 1.00 | | 1.00 | 1.00 | | | 1.00 | 0.99 | | 1.00 | 0.99 | 0.99 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1856 | 1856 | 1885 | 1885 | 1885 | 1885 | 1885 | 1885 | 1885 |
| Adj Flow Rate, veh/h | 33 | 1484 | 0 | 944 | 2128 | 85 | 85 | 84 | 0 | 188 | 124 | 86 |
| Peak Hour Factor | 0.92 | 0.92 | 0.92 | 0.94 | 0.94 | 0.94 | 0.92 | 0.92 | 0.92 | 0.93 | 0.93 | 0.93 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 3 | 3 | 3 | 1 | 1 | 1 | 1 | 1 | 1 |
| Cap, veh/h | 42 | 1815 | | 1004 | 3122 | 124 | 226 | 125 | | 290 | 242 | 204 |
| Arrive On Green | 0.02 | 0.36 | 0.00 | 0.29 | 0.62 | 0.62 | 0.05 | 0.07 | 0.00 | 0.11 | 0.13 | 0.13 |
| Sat Flow, veh/h | 1781 | 5106 | 1585 | 3428 | 4997 | 199 | 1795 | 1885 | 2812 | 1795 | 1885 | 1586 |
| Grp Volume(v), veh/h | 33 | 1484 | 0 | 944 | 1436 | 777 | 85 | 84 | 0 | 188 | 124 | 86 |
| Grp Sat Flow(s), veh/h/ln | 1781 | 1702 | 1585 | 1714 | 1689 | 1819 | 1795 | 1885 | 1406 | 1795 | 1885 | 1586 |
| Q Serve(g_s), s | 2.2 | 32.0 | 0.0 | 32.5 | 33.6 | 33.9 | 5.3 | 5.3 | 0.0 | 11.4 | 7.4 | 6.0 |
| Cycle Q Clear(g_c), s | 2.2 | 32.0 | 0.0 | 32.5 | 33.6 | 33.9 | 5.3 | 5.3 | 0.0 | 11.4 | 7.4 | 6.0 |
| Prop In Lane | 1.00 | | 1.00 | 1.00 | | 0.11 | 1.00 | | 1.00 | 1.00 | 1.00 | 1.00 |
| Lane Grp Cap(c), veh/h | 42 | 1815 | | 1004 | 2110 | 1136 | 226 | 125 | | 290 | 242 | 204 |
| V/C Ratio(X) | 0.79 | 0.82 | | 0.94 | 0.68 | 0.68 | 0.38 | 0.67 | | 0.65 | 0.51 | 0.42 |
| Avail Cap(c_a), veh/h | 132 | 1815 | | 1162 | 2110 | 1136 | 226 | 218 | | 401 | 452 | 380 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(l) | 1.00 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 58.8 | 35.4 | 0.0 | 41.7 | 14.8 | 14.9 | 49.6 | 55.2 | 0.0 | 44.1 | 49.2 | 48.6 |
| Incr Delay (d2), s/veh | 11.5 | 4.2 | 0.0 | 12.6 | 1.8 | 3.3 | 0.4 | 2.3 | 0.0 | 0.9 | 0.6 | 0.5 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%), veh/ln | 1.1 | 13.5 | 0.0 | 15.1 | 12.1 | 13.6 | 2.4 | 2.6 | 0.0 | 5.2 | 3.6 | 2.4 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 70.3 | 39.7 | 0.0 | 54.3 | 16.6 | 18.2 | 50.0 | 57.5 | 0.0 | 45.0 | 49.8 | 49.1 |
| LnGrp LOS | E | D | | D | B | B | D | E | | D | D | D |
| Approach Vol, veh/h | | 1517 | | | 3157 | | | 169 | | | 398 | |
| Approach Delay, s/veh | | 40.3 | | | 28.3 | | | 53.8 | | | 47.4 | |
| Approach LOS | | D | | | C | | | D | | | D | |
| Timer - Assigned Phs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | | | |
| Phs Duration (G+Y+Rc), s | 40.4 | 49.0 | 10.0 | 21.6 | 7.8 | 81.6 | 17.5 | 14.0 | | | | |
| Change Period (Y+Rc), s | 5.0 | 6.0 | 4.0 | 6.0 | 5.0 | 6.0 | 4.0 | 6.0 | | | | |
| Max Green Setting (Gmax), s | 41.0 | 24.0 | 6.0 | 29.0 | 9.0 | 56.0 | 21.0 | 14.0 | | | | |
| Max Q Clear Time (g_c+l1), s | 34.5 | 34.0 | 7.3 | 9.4 | 4.2 | 35.9 | 13.4 | 7.3 | | | | |
| Green Ext Time (p_c), s | 0.9 | 0.0 | 0.0 | 0.6 | 0.0 | 15.0 | 0.2 | 0.1 | | | | |
| Intersection Summary | | | | | | | | | | | | |
| HCM 6th Ctrl Delay | | | 34.0 | | | | | | | | | |
| HCM 6th LOS | | | C | | | | | | | | | |
| Notes | | | | | | | | | | | | |
| User approved pedestrian interval to be less than phase max green. | | | | | | | | | | | | |
| Unsignalized Delay for [NBR, EBR] is excluded from calculations of the approach delay and intersection delay. | | | | | | | | | | | | |



| Lane Group | EBL | EBT | EBR | WBL | WBT | NBL | NBT | SBT |
|----------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| Lane Configurations | | | | | | | | |
| Traffic Volume (vph) | 105 | 0 | 34 | 5 | 1 | 14 | 366 | 866 |
| Future Volume (vph) | 105 | 0 | 34 | 5 | 1 | 14 | 366 | 866 |
| Turn Type | Perm | NA | Perm | Perm | NA | Perm | NA | NA |
| Protected Phases | | | | | 8 | | 2 | 6 |
| Permitted Phases | 4 | | | 4 | 8 | | 2 | |
| Detector Phase | 4 | 4 | 4 | 8 | 8 | 2 | 2 | 6 |
| Switch Phase | | | | | | | | |
| Minimum Initial (s) | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 10.0 | 10.0 | 10.0 |
| Minimum Split (s) | 23.0 | 23.0 | 23.0 | 24.0 | 24.0 | 18.0 | 18.0 | 22.0 |
| Total Split (s) | 33.0 | 33.0 | 33.0 | 21.0 | 21.0 | 78.0 | 78.0 | 78.0 |
| Total Split (%) | 25.0% | 25.0% | 25.0% | 15.9% | 15.9% | 59.1% | 59.1% | 59.1% |
| Yellow Time (s) | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 4.0 | 4.0 | 4.0 |
| All-Red Time (s) | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 |
| Lost Time Adjust (s) | | | | | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Lost Time (s) | | | | 5.0 | 5.0 | 6.0 | 6.0 | 6.0 |
| Lead/Lag | | | | | | | | |
| Lead-Lag Optimize? | | | | | | | | |
| Recall Mode | None | None | None | None | None | C-Min | C-Min | C-Min |
| Act Effect Green (s) | | 14.4 | 14.4 | | 6.8 | 101.3 | 101.3 | 101.3 |
| Actuated g/C Ratio | | 0.11 | 0.11 | | 0.05 | 0.77 | 0.77 | 0.77 |
| v/c Ratio | | 0.70 | 0.17 | | 0.19 | 0.06 | 0.28 | 0.73 |

Intersection Summary

Cycle Length: 132

Actuated Cycle Length: 132

Offset: 38 (29%), Referenced to phase 2:NBTL and 6:SBTL, Start of Yellow

Natural Cycle: 110

Control Type: Actuated-Coordinated

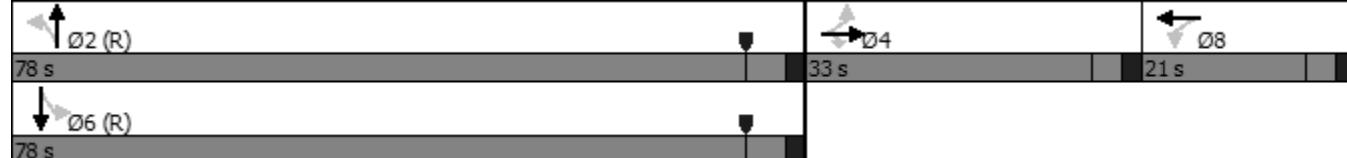
Maximum v/c Ratio: 0.73

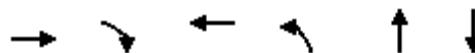
Intersection Signal Delay: 19.2

Intersection Capacity Utilization 73.9%

Analysis Period (min) 15

Splits and Phases: 2: Potomac Street & Louisiana Avenue





| Lane Group | EBT | EBR | WBT | NBL | NBT | SBT |
|-------------------------|------|------|------|------|------|------|
| Lane Group Flow (vph) | 113 | 37 | 18 | 15 | 398 | 1033 |
| v/c Ratio | 0.70 | 0.17 | 0.19 | 0.06 | 0.28 | 0.73 |
| Control Delay | 77.9 | 4.6 | 63.5 | 7.4 | 6.5 | 14.9 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.7 |
| Total Delay | 77.9 | 4.6 | 63.5 | 7.4 | 6.5 | 17.6 |
| Queue Length 50th (ft) | 95 | 0 | 15 | 2 | 68 | 318 |
| Queue Length 95th (ft) | 154 | 10 | 15 | 14 | 194 | 904 |
| Internal Link Dist (ft) | 715 | | 260 | | 100 | 235 |
| Turn Bay Length (ft) | | | | 40 | | |
| Base Capacity (vph) | 316 | 375 | 230 | 252 | 1443 | 1408 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 254 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.36 | 0.10 | 0.08 | 0.06 | 0.28 | 0.90 |

Intersection Summary

HCM 6th Signalized Intersection Summary
05/17/2022

2: Potomac Street & Louisiana Avenue
2040 Bkgd + Project - AM Peak Hour

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|----------------------------------|-------|------|------|------|-------|------|------|------|------|------|------|------|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (veh/h) | 105 | 0 | 34 | 5 | 1 | 0 | 14 | 366 | 0 | 0 | 866 | 85 |
| Future Volume (veh/h) | 105 | 0 | 34 | 5 | 1 | 0 | 14 | 366 | 0 | 0 | 866 | 85 |
| Initial Q (Q _b), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ped-Bike Adj(A_pbT) | 0.99 | | 0.98 | 0.99 | | | 1.00 | 1.00 | | 1.00 | 1.00 | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1811 | 1811 | 1811 | 1900 | 1900 | 1900 | 1885 | 1885 | 1885 | 1870 | 1870 | 1870 |
| Adj Flow Rate, veh/h | 113 | 0 | 37 | 15 | 3 | 0 | 15 | 398 | 0 | 0 | 941 | 92 |
| Peak Hour Factor | 0.93 | 0.93 | 0.93 | 0.33 | 0.33 | 0.33 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 |
| Percent Heavy Veh, % | 6 | 6 | 6 | 0 | 0 | 0 | 1 | 1 | 1 | 2 | 2 | 2 |
| Cap, veh/h | 202 | 0 | 150 | 82 | 12 | 0 | 375 | 1540 | 0 | 55 | 1369 | 134 |
| Arrive On Green | 0.10 | 0.00 | 0.10 | 0.10 | 0.10 | 0.00 | 0.82 | 0.82 | 0.00 | 0.00 | 0.82 | 0.82 |
| Sat Flow, veh/h | 1479 | 0 | 1504 | 322 | 122 | 0 | 550 | 1885 | 0 | 987 | 1676 | 164 |
| Grp Volume(v), veh/h | 113 | 0 | 37 | 18 | 0 | 0 | 15 | 398 | 0 | 0 | 0 | 1033 |
| Grp Sat Flow(s), veh/h/ln | 1479 | 0 | 1504 | 444 | 0 | 0 | 550 | 1885 | 0 | 987 | 0 | 1840 |
| Q Serve(g_s), s | 0.0 | 0.0 | 3.0 | 1.1 | 0.0 | 0.0 | 1.5 | 6.5 | 0.0 | 0.0 | 0.0 | 30.9 |
| Cycle Q Clear(g_c), s | 9.6 | 0.0 | 3.0 | 10.7 | 0.0 | 0.0 | 32.5 | 6.5 | 0.0 | 0.0 | 0.0 | 30.9 |
| Prop In Lane | 1.00 | | 1.00 | 0.83 | | | 0.00 | 1.00 | | 0.00 | 1.00 | 0.09 |
| Lane Grp Cap(c), veh/h | 202 | 0 | 150 | 94 | 0 | 0 | 375 | 1540 | 0 | 55 | 0 | 1503 |
| V/C Ratio(X) | 0.56 | 0.00 | 0.25 | 0.19 | 0.00 | 0.00 | 0.04 | 0.26 | 0.00 | 0.00 | 0.00 | 0.69 |
| Avail Cap(c_a), veh/h | 355 | 0 | 319 | 125 | 0 | 0 | 375 | 1540 | 0 | 55 | 0 | 1503 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(l) | 1.00 | 0.00 | 1.00 | 1.00 | 0.00 | 0.00 | 1.00 | 1.00 | 0.00 | 0.00 | 0.00 | 1.00 |
| Uniform Delay (d), s/veh | 57.8 | 0.0 | 54.8 | 59.9 | 0.0 | 0.0 | 11.8 | 2.8 | 0.0 | 0.0 | 0.0 | 5.0 |
| Incr Delay (d2), s/veh | 0.9 | 0.0 | 0.3 | 0.7 | 0.0 | 0.0 | 0.2 | 0.4 | 0.0 | 0.0 | 0.0 | 2.6 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%), veh/ln | 3.8 | 0.0 | 1.2 | 0.6 | 0.0 | 0.0 | 0.2 | 2.1 | 0.0 | 0.0 | 0.0 | 10.1 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 58.7 | 0.0 | 55.2 | 60.6 | 0.0 | 0.0 | 12.0 | 3.2 | 0.0 | 0.0 | 0.0 | 7.6 |
| LnGrp LOS | E | A | E | E | A | A | B | A | A | A | A | A |
| Approach Vol, veh/h | 150 | | | | 18 | | | 413 | | | 1033 | |
| Approach Delay, s/veh | 57.8 | | | | 60.6 | | | 3.5 | | | 7.6 | |
| Approach LOS | E | | | | E | | | A | | | A | |
| Timer - Assigned Phs | 2 | | 4 | | 6 | | 8 | | | | | |
| Phs Duration (G+Y+Rc), s | 113.8 | | 18.2 | | 113.8 | | 18.2 | | | | | |
| Change Period (Y+Rc), s | 6.0 | | 5.0 | | 6.0 | | 5.0 | | | | | |
| Max Green Setting (Gmax), s | 72.0 | | 28.0 | | 72.0 | | 16.0 | | | | | |
| Max Q Clear Time (g_c+l1), s | 34.5 | | 11.6 | | 32.9 | | 12.7 | | | | | |
| Green Ext Time (p_c), s | 5.8 | | 0.4 | | 22.1 | | 0.0 | | | | | |

Intersection Summary

HCM 6th Ctrl Delay 11.8
HCM 6th LOS B

Notes

User approved pedestrian interval to be less than phase max green.

Intersection

Int Delay, s/veh 0.9

| Movement | WBL | WBR | NBT | NBR | SBL | SBT |
|--------------------------|------|------|------|------|------|------|
| Lane Configurations | W | B | T | T | B | T |
| Traffic Vol, veh/h | 18 | 26 | 355 | 38 | 60 | 845 |
| Future Vol, veh/h | 18 | 26 | 355 | 38 | 60 | 845 |
| Conflicting Peds, #/hr | 0 | 0 | 0 | 3 | 3 | 0 |
| Sign Control | Stop | Stop | Free | Free | Free | Free |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | 0 | - | - | - | 30 | - |
| Veh in Median Storage, # | 0 | - | 0 | - | - | 0 |
| Grade, % | 0 | - | 0 | - | - | 0 |
| Peak Hour Factor | 90 | 90 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 1 | 1 | 2 | 2 | 2 | 2 |
| Mvmt Flow | 20 | 29 | 386 | 41 | 65 | 918 |

| Major/Minor | Minor1 | Major1 | Major2 | |
|----------------------|--------|--------|--------|-----------|
| Conflicting Flow All | 1458 | 410 | 0 | 0 430 0 |
| Stage 1 | 410 | - | - | - |
| Stage 2 | 1048 | - | - | - |
| Critical Hdwy | 6.41 | 6.21 | - | - 4.12 - |
| Critical Hdwy Stg 1 | 5.41 | - | - | - |
| Critical Hdwy Stg 2 | 5.41 | - | - | - |
| Follow-up Hdwy | 3.509 | 3.309 | - | - 2.218 - |
| Pot Cap-1 Maneuver | 143 | 644 | - | - 1129 - |
| Stage 1 | 672 | - | - | - |
| Stage 2 | 339 | - | - | - |
| Platoon blocked, % | - | - | - | - |
| Mov Cap-1 Maneuver | 134 | 642 | - | - 1126 - |
| Mov Cap-2 Maneuver | 248 | - | - | - |
| Stage 1 | 670 | - | - | - |
| Stage 2 | 319 | - | - | - |

| Approach | WB | NB | SB | |
|-----------------------|------|----------|-------|-----|
| HCM Control Delay, s | 15.6 | 0 | 0.6 | |
| HCM LOS | C | | | |
| Minor Lane/Major Mvmt | NBT | NBRWBLn1 | SBL | SBT |
| Capacity (veh/h) | - | - 389 | 1126 | - |
| HCM Lane V/C Ratio | - | - 0.126 | 0.058 | - |
| HCM Control Delay (s) | - | - 15.6 | 8.4 | - |
| HCM Lane LOS | - | - C | A | - |
| HCM 95th %tile Q(veh) | - | - 0.4 | 0.2 | - |

Intersection

Int Delay, s/veh 2.6

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|--------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Lane Configurations | ↖ ↗ | ↖ ↗ | ↖ ↗ | ↖ ↗ | ↖ ↗ | ↖ ↗ | ↖ ↗ | ↖ ↗ | ↖ ↗ | ↖ ↗ | ↖ ↗ | ↖ ↗ |
| Traffic Vol, veh/h | 15 | 2 | 10 | 10 | 1 | 10 | 35 | 265 | 45 | 95 | 383 | 10 |
| Future Vol, veh/h | 15 | 2 | 10 | 10 | 1 | 10 | 35 | 265 | 45 | 95 | 383 | 10 |
| Conflicting Peds, #/hr | 11 | 0 | 3 | 3 | 0 | 11 | 0 | 0 | 7 | 7 | 0 | 0 |
| Sign Control | Stop | Stop | Stop | Stop | Stop | Stop | Free | Free | Free | Free | Free | Free |
| RT Channelized | - | - | None |
| Storage Length | 40 | - | - | 40 | - | - | 100 | - | - | 100 | - | - |
| Veh in Median Storage, # | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Grade, % | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Peak Hour Factor | 65 | 65 | 65 | 68 | 80 | 68 | 92 | 92 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 2 | 2 | 2 |
| Mvmt Flow | 23 | 3 | 15 | 15 | 1 | 15 | 38 | 288 | 49 | 103 | 416 | 11 |

| Major/Minor | Minor2 | Minor1 | | | Major1 | | | Major2 | | | | |
|----------------------|--------|--------|-----|------|--------|-----|-------|--------|---|-------|---|---|
| Conflicting Flow All | 1036 | 1048 | 425 | 1036 | 1029 | 331 | 427 | 0 | 0 | 344 | 0 | 0 |
| Stage 1 | 628 | 628 | - | 396 | 396 | - | - | - | - | - | - | - |
| Stage 2 | 408 | 420 | - | 640 | 633 | - | - | - | - | - | - | - |
| Critical Hdwy | 7.1 | 6.5 | 6.2 | 7.1 | 6.5 | 6.2 | 4.11 | - | - | 4.12 | - | - |
| Critical Hdwy Stg 1 | 6.1 | 5.5 | - | 6.1 | 5.5 | - | - | - | - | - | - | - |
| Critical Hdwy Stg 2 | 6.1 | 5.5 | - | 6.1 | 5.5 | - | - | - | - | - | - | - |
| Follow-up Hdwy | 3.5 | 4 | 3.3 | 3.5 | 4 | 3.3 | 2.209 | - | - | 2.218 | - | - |
| Pot Cap-1 Maneuver | 212 | 230 | 634 | 212 | 236 | 715 | 1138 | - | - | 1215 | - | - |
| Stage 1 | 474 | 479 | - | 633 | 607 | - | - | - | - | - | - | - |
| Stage 2 | 624 | 593 | - | 467 | 476 | - | - | - | - | - | - | - |
| Platoon blocked, % | | | | | | | | - | - | - | - | - |
| Mov Cap-1 Maneuver | 186 | 202 | 632 | 185 | 207 | 703 | 1138 | - | - | 1207 | - | - |
| Mov Cap-2 Maneuver | 186 | 202 | - | 185 | 207 | - | - | - | - | - | - | - |
| Stage 1 | 458 | 438 | - | 608 | 583 | - | - | - | - | - | - | - |
| Stage 2 | 583 | 569 | - | 413 | 436 | - | - | - | - | - | - | - |

| Approach | EB | WB | | | NB | | | SB | | | | |
|-----------------------|-------|------|-----|-------|-------|-------|-------|-------|-----|-----|--|--|
| HCM Control Delay, s | 20.8 | 18.3 | | | 0.8 | | | 1.6 | | | | |
| HCM LOS | C | C | | | | | | | | | | |
| Minor Lane/Major Mvmt | NBL | NBT | NBR | EBLn1 | EBLn2 | WBLn1 | WBLn2 | SBL | SBT | SBR | | |
| Capacity (veh/h) | 1138 | - | - | 186 | 466 | 185 | 592 | 1207 | - | - | | |
| HCM Lane V/C Ratio | 0.033 | - | - | 0.124 | 0.04 | 0.079 | 0.027 | 0.086 | - | - | | |
| HCM Control Delay (s) | 8.3 | - | - | 27.1 | 13 | 26.1 | 11.2 | 8.3 | - | - | | |
| HCM Lane LOS | A | - | - | D | B | D | B | A | - | - | | |
| HCM 95th %tile Q(veh) | 0.1 | - | - | 0.4 | 0.1 | 0.3 | 0.1 | 0.3 | - | - | | |

Intersection

Intersection Delay, s/veh 7.8

Intersection LOS A

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|----------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Lane Configurations | | ↔ | | | ↔ | | | ↔ | | | ↔ | |
| Traffic Vol, veh/h | 40 | 30 | 5 | 2 | 25 | 30 | 10 | 69 | 5 | 20 | 17 | 22 |
| Future Vol, veh/h | 40 | 30 | 5 | 2 | 25 | 30 | 10 | 69 | 5 | 20 | 17 | 22 |
| Peak Hour Factor | 0.88 | 0.88 | 0.88 | 0.93 | 0.93 | 0.93 | 0.88 | 0.88 | 0.88 | 0.88 | 0.88 | 0.88 |
| Heavy Vehicles, % | 6 | 6 | 6 | 8 | 8 | 8 | 0 | 0 | 0 | 10 | 10 | 10 |
| Mvmt Flow | 45 | 34 | 6 | 2 | 27 | 32 | 11 | 78 | 6 | 23 | 19 | 25 |
| Number of Lanes | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 |
| Approach | EB | | | WB | | | NB | | | SB | | |
| Opposing Approach | WB | | | EB | | | SB | | | NB | | |
| Opposing Lanes | 1 | | | 1 | | | 1 | | | 1 | | |
| Conflicting Approach Left | SB | | | NB | | | EB | | | WB | | |
| Conflicting Lanes Left | 1 | | | 1 | | | 1 | | | 1 | | |
| Conflicting Approach Right | NB | | | SB | | | WB | | | EB | | |
| Conflicting Lanes Right | 1 | | | 1 | | | 1 | | | 1 | | |
| HCM Control Delay | 8.1 | | | 7.5 | | | 7.9 | | | 7.7 | | |
| HCM LOS | A | | | A | | | A | | | A | | |

| Lane | NBLn1 | EBLn1 | WBLn1 | SBLn1 |
|------------------------|-------|-------|-------|-------|
| Vol Left, % | 12% | 53% | 4% | 34% |
| Vol Thru, % | 82% | 40% | 44% | 29% |
| Vol Right, % | 6% | 7% | 53% | 37% |
| Sign Control | Stop | Stop | Stop | Stop |
| Traffic Vol by Lane | 84 | 75 | 57 | 59 |
| LT Vol | 10 | 40 | 2 | 20 |
| Through Vol | 69 | 30 | 25 | 17 |
| RT Vol | 5 | 5 | 30 | 22 |
| Lane Flow Rate | 95 | 85 | 61 | 67 |
| Geometry Grp | 1 | 1 | 1 | 1 |
| Degree of Util (X) | 0.114 | 0.107 | 0.071 | 0.081 |
| Departure Headway (Hd) | 4.306 | 4.499 | 4.189 | 4.35 |
| Convergence, Y/N | Yes | Yes | Yes | Yes |
| Cap | 837 | 799 | 858 | 826 |
| Service Time | 2.306 | 2.511 | 2.201 | 2.362 |
| HCM Lane V/C Ratio | 0.114 | 0.106 | 0.071 | 0.081 |
| HCM Control Delay | 7.9 | 8.1 | 7.5 | 7.7 |
| HCM Lane LOS | A | A | A | A |
| HCM 95th-tile Q | 0.4 | 0.4 | 0.2 | 0.3 |

| Lane Group | EBL | EBT | EBR | WBL | WBT | NBL | NBT | NBR | SBL | SBT | SBR |
|----------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Lane Configurations | ↑ | ↑↑↑ | ↑ | ↑↑ | ↑↑↑ | ↑ | ↑ | ↑↑ | ↑ | ↑ | ↑ |
| Traffic Volume (vph) | 40 | 1975 | 91 | 346 | 1825 | 141 | 105 | 643 | 220 | 168 | 105 |
| Future Volume (vph) | 40 | 1975 | 91 | 346 | 1825 | 141 | 105 | 643 | 220 | 168 | 105 |
| Turn Type | Prot | NA | Perm | Prot | NA | pm+pt | NA | Perm | pm+pt | NA | pm+ov |
| Protected Phases | 5 | 2 | | 1 | 6 | 3 | 8 | | 7 | 4 | 5 |
| Permitted Phases | | | | | | 8 | | 8 | 4 | | 4 |
| Detector Phase | 5 | 2 | 2 | 1 | 6 | 3 | 8 | 8 | 7 | 4 | 5 |
| Switch Phase | | | | | | | | | | | |
| Minimum Initial (s) | 4.0 | 10.0 | 10.0 | 4.0 | 10.0 | 3.0 | 5.0 | 5.0 | 3.0 | 5.0 | 4.0 |
| Minimum Split (s) | 9.5 | 29.0 | 29.0 | 9.5 | 24.0 | 9.5 | 38.0 | 38.0 | 9.5 | 34.0 | 9.5 |
| Total Split (s) | 14.0 | 47.0 | 47.0 | 26.0 | 59.0 | 23.0 | 26.0 | 26.0 | 23.0 | 26.0 | 14.0 |
| Total Split (%) | 11.5% | 38.5% | 38.5% | 21.3% | 48.4% | 18.9% | 21.3% | 21.3% | 18.9% | 21.3% | 11.5% |
| Yellow Time (s) | 3.0 | 4.0 | 4.0 | 3.0 | 4.0 | 3.0 | 4.0 | 4.0 | 3.0 | 4.0 | 3.0 |
| All-Red Time (s) | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 1.0 | 2.0 | 2.0 | 1.0 | 2.0 | 2.0 |
| Lost Time Adjust (s) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Lost Time (s) | 5.0 | 6.0 | 6.0 | 5.0 | 6.0 | 4.0 | 6.0 | 6.0 | 4.0 | 6.0 | 5.0 |
| Lead/Lag | Lead | Lag | Lag | Lead | Lag | Lead | Lag | Lag | Lead | Lag | Lead |
| Lead-Lag Optimize? | Yes |
| Recall Mode | None | C-Max | C-Max | None | C-Max | None | None | None | None | None | None |
| Act Effct Green (s) | 6.7 | 53.6 | 53.6 | 16.7 | 63.6 | 27.7 | 13.9 | 13.9 | 36.5 | 18.8 | 26.6 |
| Actuated g/C Ratio | 0.05 | 0.44 | 0.44 | 0.14 | 0.52 | 0.23 | 0.11 | 0.11 | 0.30 | 0.15 | 0.22 |
| v/c Ratio | 0.44 | 0.96 | 0.13 | 0.78 | 0.77 | 0.48 | 0.54 | 0.88 | 0.61 | 0.63 | 0.27 |

Intersection Summary

Cycle Length: 122

Actuated Cycle Length: 122

Offset: 45 (37%), Referenced to phase 2:EBT and 6:WBT, Start of Green

Natural Cycle: 120

Control Type: Actuated-Coordinated

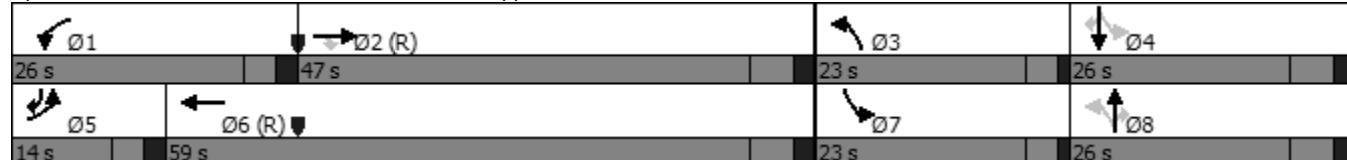
Maximum v/c Ratio: 0.96

Intersection Signal Delay: 37.5

Intersection Capacity Utilization 86.9%

Analysis Period (min) 15

Splits and Phases: 1: Potomac Street & Mississippi Avenue





| Lane Group | EBL | EBT | EBR | WBL | WBT | NBL | NBT | NBR | SBL | SBT | SBR |
|-------------------------|------|------|------|------|------|------|------|------|------|------|------|
| Lane Group Flow (vph) | 43 | 2147 | 99 | 364 | 2026 | 153 | 114 | 699 | 239 | 183 | 114 |
| V/c Ratio | 0.44 | 0.96 | 0.13 | 0.78 | 0.77 | 0.48 | 0.54 | 0.88 | 0.61 | 0.63 | 0.27 |
| Control Delay | 69.1 | 46.2 | 1.2 | 62.3 | 27.5 | 36.4 | 59.0 | 25.4 | 40.2 | 57.6 | 8.2 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay | 69.1 | 46.2 | 1.2 | 62.3 | 27.5 | 36.4 | 59.0 | 25.4 | 40.2 | 57.6 | 8.2 |
| Queue Length 50th (ft) | 33 | 602 | 0 | 144 | 462 | 91 | 86 | 68 | 150 | 135 | 4 |
| Queue Length 95th (ft) | 72 | #871 | 9 | 190 | 616 | 135 | 139 | 146 | 206 | 207 | 46 |
| Internal Link Dist (ft) | | 1218 | | | 819 | | 404 | | | 347 | |
| Turn Bay Length (ft) | 135 | | 430 | 400 | | 160 | | 200 | 50 | | 50 |
| Base Capacity (vph) | 130 | 2234 | 759 | 590 | 2624 | 421 | 308 | 905 | 408 | 329 | 455 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.33 | 0.96 | 0.13 | 0.62 | 0.77 | 0.36 | 0.37 | 0.77 | 0.59 | 0.56 | 0.25 |

Intersection Summary

95th percentile volume exceeds capacity, queue may be longer.

Queue shown is maximum after two cycles.

HCM 6th Signalized Intersection Summary
05/17/2022

1: Potomac Street & Mississippi Avenue
2040 Bkgd + Project - PM Peak Hour

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|----------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Lane Configurations | ↑ | ↑↑↑ | ↑ | ↑↑ | ↑↑↑ | | ↑ | ↑ | ↑↑ | ↑ | ↑ | ↑ |
| Traffic Volume (veh/h) | 40 | 1975 | 91 | 346 | 1825 | 100 | 141 | 105 | 643 | 220 | 168 | 105 |
| Future Volume (veh/h) | 40 | 1975 | 91 | 346 | 1825 | 100 | 141 | 105 | 643 | 220 | 168 | 105 |
| Initial Q (Q _b), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ped-Bike Adj(A_pbT) | 1.00 | | | 1.00 | 1.00 | | 0.99 | 0.99 | | 1.00 | 0.99 | 0.99 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | No | | | No | | | No | | | No | | |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 | 1885 | 1885 | 1885 | 1885 | 1885 | 1885 |
| Adj Flow Rate, veh/h | 43 | 2147 | 0 | 364 | 1921 | 105 | 153 | 114 | 0 | 239 | 183 | 114 |
| Peak Hour Factor | 0.92 | 0.92 | 0.92 | 0.95 | 0.95 | 0.95 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| Cap, veh/h | 55 | 2469 | | 422 | 2845 | 155 | 265 | 166 | | 338 | 244 | 255 |
| Arrive On Green | 0.03 | 0.48 | 0.00 | 0.12 | 0.57 | 0.57 | 0.09 | 0.09 | 0.00 | 0.13 | 0.13 | 0.13 |
| Sat Flow, veh/h | 1781 | 5106 | 1585 | 3456 | 4953 | 270 | 1795 | 1885 | 2812 | 1795 | 1885 | 1583 |
| Grp Volume(v), veh/h | 43 | 2147 | 0 | 364 | 1319 | 707 | 153 | 114 | 0 | 239 | 183 | 114 |
| Grp Sat Flow(s), veh/h/ln | 1781 | 1702 | 1585 | 1728 | 1702 | 1818 | 1795 | 1885 | 1406 | 1795 | 1885 | 1583 |
| Q Serve(g_s), s | 2.9 | 45.7 | 0.0 | 12.6 | 32.8 | 33.0 | 9.3 | 7.2 | 0.0 | 14.3 | 11.4 | 7.9 |
| Cycle Q Clear(g_c), s | 2.9 | 45.7 | 0.0 | 12.6 | 32.8 | 33.0 | 9.3 | 7.2 | 0.0 | 14.3 | 11.4 | 7.9 |
| Prop In Lane | 1.00 | | | 1.00 | 1.00 | | 0.15 | 1.00 | | 1.00 | 1.00 | 1.00 |
| Lane Grp Cap(c), veh/h | 55 | 2469 | | 422 | 1956 | 1045 | 265 | 166 | | 338 | 244 | 255 |
| V/C Ratio(X) | 0.78 | 0.87 | | 0.86 | 0.67 | 0.68 | 0.58 | 0.69 | | 0.71 | 0.75 | 0.45 |
| Avail Cap(c_a), veh/h | 131 | 2469 | | 595 | 1956 | 1045 | 378 | 309 | | 376 | 309 | 309 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(l) | 1.00 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 0.00 | 1.00 | 1.00 | 1.00 |
| Uniform Delay (d), s/veh | 58.7 | 28.1 | 0.0 | 52.6 | 18.0 | 18.1 | 44.9 | 54.0 | 0.0 | 41.2 | 51.2 | 46.3 |
| Incr Delay (d2), s/veh | 8.5 | 4.5 | 0.0 | 6.9 | 1.9 | 3.5 | 0.7 | 1.9 | 0.0 | 4.1 | 5.3 | 0.5 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%), veh/ln | 1.4 | 18.5 | 0.0 | 5.8 | 12.4 | 13.9 | 4.2 | 3.5 | 0.0 | 6.8 | 5.8 | 3.2 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 67.2 | 32.6 | 0.0 | 59.5 | 19.9 | 21.6 | 45.7 | 55.8 | 0.0 | 45.3 | 56.4 | 46.8 |
| LnGrp LOS | E | C | | E | B | C | D | E | | D | E | D |
| Approach Vol, veh/h | 2190 | | | 2390 | | | 267 | | | 536 | | |
| Approach Delay, s/veh | 33.3 | | | 26.4 | | | 50.0 | | | 49.4 | | |
| Approach LOS | C | | | C | | | D | | | D | | |

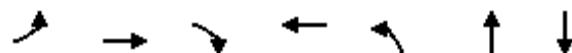
Intersection Summary

HCM 6th Ctrl Delay 32.7
HCM 6th LOS C

Notes

User approved pedestrian interval to be less than phase max green.

Unsignalized Delay for [NBR, EBR] is excluded from calculations of the approach delay and intersection delay.



| Lane Group | EBL | EBT | EBR | WBT | NBL | NBT | SBT |
|----------------------|-------|-------|-------|-------|-------|-------|-------|
| Lane Configurations | | | | | | | |
| Traffic Volume (vph) | 105 | 0 | 16 | 0 | 26 | 794 | 375 |
| Future Volume (vph) | 105 | 0 | 16 | 0 | 26 | 794 | 375 |
| Turn Type | Perm | NA | Perm | NA | Perm | NA | NA |
| Protected Phases | | | | 4 | 8 | 2 | 6 |
| Permitted Phases | 4 | | | 4 | | 2 | |
| Detector Phase | 4 | 4 | 4 | 8 | 2 | 2 | 6 |
| Switch Phase | | | | | | | |
| Minimum Initial (s) | 5.0 | 5.0 | 5.0 | 5.0 | 10.0 | 10.0 | 10.0 |
| Minimum Split (s) | 23.0 | 23.0 | 23.0 | 24.0 | 18.0 | 18.0 | 22.0 |
| Total Split (s) | 33.0 | 33.0 | 33.0 | 21.0 | 78.0 | 78.0 | 78.0 |
| Total Split (%) | 25.0% | 25.0% | 25.0% | 15.9% | 59.1% | 59.1% | 59.1% |
| Yellow Time (s) | 3.0 | 3.0 | 3.0 | 3.0 | 4.0 | 4.0 | 4.0 |
| All-Red Time (s) | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 |
| Lost Time Adjust (s) | | | | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Lost Time (s) | | | | 5.0 | 5.0 | 6.0 | 6.0 |
| Lead/Lag | | | | | | | |
| Lead-Lag Optimize? | | | | | | | |
| Recall Mode | None | None | None | None | C-Min | C-Min | C-Min |
| Act Effect Green (s) | 43.5 | 43.5 | 5.0 | 75.5 | 75.5 | 75.5 | |
| Actuated g/C Ratio | 0.33 | 0.33 | 0.04 | 0.57 | 0.57 | 0.57 | |
| v/c Ratio | 2.04 | 0.03 | 0.03 | 0.07 | 0.81 | 0.49 | |

Intersection Summary

Cycle Length: 132

Actuated Cycle Length: 132

Offset: 38 (29%), Referenced to phase 2:NBTL and 6:SBTL, Start of Yellow

Natural Cycle: 90

Control Type: Actuated-Coordinated

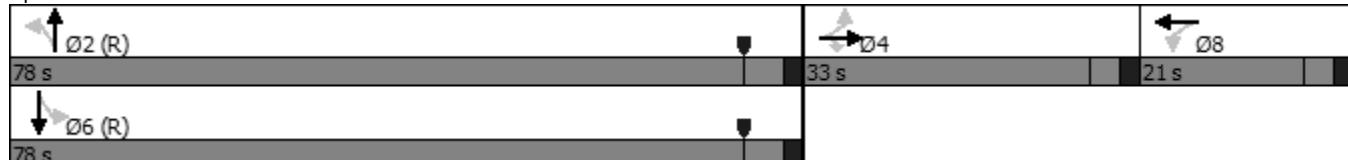
Maximum v/c Ratio: 2.04

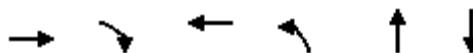
Intersection Signal Delay: 63.3

Intersection Capacity Utilization 63.8%

Analysis Period (min) 15

Splits and Phases: 2: Potomac Street & Louisiana Avenue





| Lane Group | EBT | EBR | WBT | NBL | NBT | SBT |
|-------------------------|-------|------|------|------|------|------|
| Lane Group Flow (vph) | 114 | 17 | 8 | 28 | 865 | 500 |
| v/c Ratio | 2.04 | 0.03 | 0.03 | 0.07 | 0.81 | 0.49 |
| Control Delay | 548.0 | 0.1 | 0.0 | 11.9 | 29.4 | 17.5 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay | 548.0 | 0.1 | 0.0 | 11.9 | 29.4 | 17.5 |
| Queue Length 50th (ft) | ~149 | 0 | 0 | 11 | 584 | 242 |
| Queue Length 95th (ft) | #272 | 0 | 0 | 22 | 654 | 277 |
| Internal Link Dist (ft) | 715 | | 260 | | 100 | 235 |
| Turn Bay Length (ft) | | | | 40 | | |
| Base Capacity (vph) | 56 | 550 | 411 | 388 | 1071 | 1036 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 2.04 | 0.03 | 0.02 | 0.07 | 0.81 | 0.48 |

Intersection Summary

- ~ Volume exceeds capacity, queue is theoretically infinite.
Queue shown is maximum after two cycles.
- # 95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

HCM 6th Signalized Intersection Summary
05/17/2022

2: Potomac Street & Louisiana Avenue
2040 Bkgd + Project - PM Peak Hour

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|----------------------------------|-------|------|------|------|-------|------|------|------|------|------|------|------|
| Lane Configurations | | | | | | | | | | | | |
| Traffic Volume (veh/h) | 105 | 0 | 16 | 0 | 0 | 2 | 26 | 794 | 2 | 0 | 375 | 100 |
| Future Volume (veh/h) | 105 | 0 | 16 | 0 | 0 | 2 | 26 | 794 | 2 | 0 | 375 | 100 |
| Initial Q (Q _b), veh | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ped-Bike Adj(A_pbT) | 0.99 | | 0.99 | 1.00 | | | 0.99 | 1.00 | | 0.97 | 1.00 | 1.00 |
| Parking Bus, Adj | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Work Zone On Approach | | No | | | No | | | No | | | No | |
| Adj Sat Flow, veh/h/ln | 1870 | 1870 | 1870 | 1900 | 1900 | 1900 | 1870 | 1870 | 1870 | 1870 | 1870 | 1870 |
| Adj Flow Rate, veh/h | 114 | 0 | 17 | 0 | 0 | 8 | 28 | 863 | 2 | 0 | 395 | 105 |
| Peak Hour Factor | 0.92 | 0.92 | 0.92 | 0.25 | 0.25 | 0.25 | 0.92 | 0.92 | 0.92 | 0.95 | 0.95 | 0.95 |
| Percent Heavy Veh, % | 2 | 2 | 2 | 0 | 0 | 0 | 2 | 2 | 2 | 2 | 2 | 2 |
| Cap, veh/h | 195 | 0 | 164 | 0 | 0 | 168 | 718 | 1513 | 4 | 55 | 1154 | 307 |
| Arrive On Green | 0.11 | 0.00 | 0.11 | 0.00 | 0.00 | 0.11 | 0.81 | 0.81 | 0.81 | 0.00 | 0.81 | 0.81 |
| Sat Flow, veh/h | 1336 | 0 | 1562 | 0 | 0 | 1596 | 897 | 1865 | 4 | 640 | 1422 | 378 |
| Grp Volume(v), veh/h | 114 | 0 | 17 | 0 | 0 | 8 | 28 | 0 | 865 | 0 | 0 | 500 |
| Grp Sat Flow(s), veh/h/ln | 1336 | 0 | 1562 | 0 | 0 | 1596 | 897 | 0 | 1869 | 640 | 0 | 1800 |
| Q Serve(g_s), s | 10.6 | 0.0 | 1.3 | 0.0 | 0.0 | 0.6 | 1.1 | 0.0 | 21.4 | 0.0 | 0.0 | 9.6 |
| Cycle Q Clear(g_c), s | 11.2 | 0.0 | 1.3 | 0.0 | 0.0 | 0.6 | 10.7 | 0.0 | 21.4 | 0.0 | 0.0 | 9.6 |
| Prop In Lane | 1.00 | | 1.00 | 0.00 | | | 1.00 | 1.00 | | 0.00 | 1.00 | 0.21 |
| Lane Grp Cap(c), veh/h | 195 | 0 | 164 | 0 | 0 | 168 | 718 | 0 | 1517 | 55 | 0 | 1461 |
| V/C Ratio(X) | 0.58 | 0.00 | 0.10 | 0.00 | 0.00 | 0.05 | 0.04 | 0.00 | 0.57 | 0.00 | 0.00 | 0.34 |
| Avail Cap(c_a), veh/h | 344 | 0 | 331 | 0 | 0 | 194 | 718 | 0 | 1517 | 55 | 0 | 1461 |
| HCM Platoon Ratio | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| Upstream Filter(l) | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 1.00 | 1.00 | 0.00 | 1.00 | 0.00 | 0.00 | 1.00 |
| Uniform Delay (d), s/veh | 58.1 | 0.0 | 53.4 | 0.0 | 0.0 | 53.1 | 4.6 | 0.0 | 4.4 | 0.0 | 0.0 | 3.3 |
| Incr Delay (d2), s/veh | 1.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.1 | 0.1 | 0.0 | 1.6 | 0.0 | 0.0 | 0.6 |
| Initial Q Delay(d3), s/veh | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| %ile BackOfQ(50%), veh/ln | 3.8 | 0.0 | 0.5 | 0.0 | 0.0 | 0.2 | 0.2 | 0.0 | 7.1 | 0.0 | 0.0 | 3.0 |
| Unsig. Movement Delay, s/veh | | | | | | | | | | | | |
| LnGrp Delay(d), s/veh | 59.2 | 0.0 | 53.5 | 0.0 | 0.0 | 53.2 | 4.7 | 0.0 | 5.9 | 0.0 | 0.0 | 3.9 |
| LnGrp LOS | E | A | D | A | A | D | A | A | A | A | A | A |
| Approach Vol, veh/h | 131 | | | | 8 | | | 893 | | | 500 | |
| Approach Delay, s/veh | 58.4 | | | | 53.2 | | | 5.9 | | | 3.9 | |
| Approach LOS | E | | | | D | | | A | | | A | |
| Timer - Assigned Phs | 2 | | 4 | | 6 | | 8 | | | | | |
| Phs Duration (G+Y+Rc), s | 113.1 | | 18.9 | | 113.1 | | 18.9 | | | | | |
| Change Period (Y+Rc), s | 6.0 | | 5.0 | | 6.0 | | 5.0 | | | | | |
| Max Green Setting (Gmax), s | 72.0 | | 28.0 | | 72.0 | | 16.0 | | | | | |
| Max Q Clear Time (g_c+l1), s | 23.4 | | 13.2 | | 11.6 | | 2.6 | | | | | |
| Green Ext Time (p_c), s | 18.5 | | 0.3 | | 8.1 | | 0.0 | | | | | |

Intersection Summary

HCM 6th Ctrl Delay 10.0
HCM 6th LOS A

Notes

User approved pedestrian interval to be less than phase max green.

Intersection

Int Delay, s/veh 2.1

| Movement | WBL | WBR | NBT | NBR | SBL | SBT |
|--------------------------|------|------|------|------|------|------|
| Lane Configurations | W | B | W | W | B | B |
| Traffic Vol, veh/h | 37 | 70 | 750 | 20 | 36 | 350 |
| Future Vol, veh/h | 37 | 70 | 750 | 20 | 36 | 350 |
| Conflicting Peds, #/hr | 1 | 1 | 0 | 11 | 11 | 0 |
| Sign Control | Stop | Stop | Free | Free | Free | Free |
| RT Channelized | - | None | - | None | - | None |
| Storage Length | 0 | - | - | - | 30 | - |
| Veh in Median Storage, # | 0 | - | 0 | - | - | 0 |
| Grade, % | 0 | - | 0 | - | - | 0 |
| Peak Hour Factor | 90 | 90 | 92 | 92 | 92 | 92 |
| Heavy Vehicles, % | 0 | 0 | 2 | 2 | 3 | 3 |
| Mvmt Flow | 41 | 78 | 815 | 22 | 39 | 380 |

| Major/Minor | Minor1 | Major1 | Major2 | | |
|----------------------|--------|--------|--------|---|-------|
| Conflicting Flow All | 1296 | 838 | 0 | 0 | 848 |
| Stage 1 | 837 | - | - | - | - |
| Stage 2 | 459 | - | - | - | - |
| Critical Hdwy | 6.4 | 6.2 | - | - | 4.13 |
| Critical Hdwy Stg 1 | 5.4 | - | - | - | - |
| Critical Hdwy Stg 2 | 5.4 | - | - | - | - |
| Follow-up Hdwy | 3.5 | 3.3 | - | - | 2.227 |
| Pot Cap-1 Maneuver | 181 | 369 | - | - | 785 |
| Stage 1 | 428 | - | - | - | - |
| Stage 2 | 641 | - | - | - | - |
| Platoon blocked, % | - | - | - | - | - |
| Mov Cap-1 Maneuver | 170 | 365 | - | - | 777 |
| Mov Cap-2 Maneuver | 302 | - | - | - | - |
| Stage 1 | 424 | - | - | - | - |
| Stage 2 | 608 | - | - | - | - |

| Approach | WB | NB | SB | |
|----------------------|------|----|-----|--|
| HCM Control Delay, s | 21.2 | 0 | 0.9 | |
| HCM LOS | C | | | |

| Minor Lane/Major Mvmt | NBT | NBR | WBLn1 | SBL | SBT |
|-----------------------|-----|-----|-------|------|-----|
| Capacity (veh/h) | - | - | 340 | 777 | - |
| HCM Lane V/C Ratio | - | - | 0.35 | 0.05 | - |
| HCM Control Delay (s) | - | - | 21.2 | 9.9 | - |
| HCM Lane LOS | - | - | C | A | - |
| HCM 95th %tile Q(veh) | - | - | 1.5 | 0.2 | - |

Intersection

Int Delay, s/veh 3.5

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|--------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Lane Configurations | ↖ ↗ | ↗ ↗ | ↖ ↗ | ↖ ↗ | ↖ ↗ | ↖ ↗ | ↖ ↗ | ↖ ↗ | ↖ ↗ | ↖ ↗ | ↖ ↗ | ↖ ↗ |
| Traffic Vol, veh/h | 35 | 3 | 25 | 25 | 3 | 55 | 20 | 385 | 10 | 20 | 307 | 15 |
| Future Vol, veh/h | 35 | 3 | 25 | 25 | 3 | 55 | 20 | 385 | 10 | 20 | 307 | 15 |
| Conflicting Peds, #/hr | 3 | 0 | 2 | 2 | 0 | 3 | 1 | 0 | 3 | 3 | 0 | 1 |
| Sign Control | Stop | Stop | Stop | Stop | Stop | Stop | Free | Free | Free | Free | Free | Free |
| RT Channelized | - | - | None |
| Storage Length | 40 | - | - | 40 | - | - | 100 | - | - | 100 | - | - |
| Veh in Median Storage, # | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Grade, % | - | 0 | - | - | 0 | - | - | 0 | - | - | 0 | - |
| Peak Hour Factor | 78 | 78 | 78 | 76 | 76 | 76 | 94 | 94 | 94 | 98 | 98 | 98 |
| Heavy Vehicles, % | 2 | 2 | 2 | 0 | 0 | 0 | 2 | 2 | 2 | 1 | 1 | 1 |
| Mvmt Flow | 45 | 4 | 32 | 33 | 4 | 72 | 21 | 410 | 11 | 20 | 313 | 15 |

| Major/Minor | Minor2 | Minor1 | | | Major1 | | | Major2 | | | | |
|----------------------|--------|--------|-------|-----|--------|-----|-------|--------|---|-------|---|---|
| Conflicting Flow All | 861 | 828 | 324 | 842 | 830 | 422 | 329 | 0 | 0 | 424 | 0 | 0 |
| Stage 1 | 362 | 362 | - | 461 | 461 | - | - | - | - | - | - | - |
| Stage 2 | 499 | 466 | - | 381 | 369 | - | - | - | - | - | - | - |
| Critical Hdwy | 7.12 | 6.52 | 6.22 | 7.1 | 6.5 | 6.2 | 4.12 | - | - | 4.11 | - | - |
| Critical Hdwy Stg 1 | 6.12 | 5.52 | - | 6.1 | 5.5 | - | - | - | - | - | - | - |
| Critical Hdwy Stg 2 | 6.12 | 5.52 | - | 6.1 | 5.5 | - | - | - | - | - | - | - |
| Follow-up Hdwy | 3.518 | 4.018 | 3.318 | 3.5 | 4 | 3.3 | 2.218 | - | - | 2.209 | - | - |
| Pot Cap-1 Maneuver | 276 | 306 | 717 | 286 | 308 | 636 | 1231 | - | - | 1141 | - | - |
| Stage 1 | 657 | 625 | - | 584 | 569 | - | - | - | - | - | - | - |
| Stage 2 | 554 | 562 | - | 645 | 624 | - | - | - | - | - | - | - |
| Platoon blocked, % | | | | | | | | - | - | - | - | - |
| Mov Cap-1 Maneuver | 235 | 294 | 715 | 262 | 296 | 632 | 1230 | - | - | 1138 | - | - |
| Mov Cap-2 Maneuver | 235 | 294 | - | 262 | 296 | - | - | - | - | - | - | - |
| Stage 1 | 645 | 613 | - | 572 | 558 | - | - | - | - | - | - | - |
| Stage 2 | 477 | 551 | - | 600 | 612 | - | - | - | - | - | - | - |

| Approach | EB | WB | | | NB | | | SB | | | | |
|-----------------------|-------|------|-----|-------|-------|-------|-------|-------|-----|-----|--|--|
| HCM Control Delay, s | 18.3 | 14.6 | | | 0.4 | | | 0.5 | | | | |
| HCM LOS | C | B | | | | | | | | | | |
| Minor Lane/Major Mvmt | NBL | NBT | NBR | EBLn1 | EBLn2 | WBLn1 | WBLn2 | SBL | SBT | SBR | | |
| Capacity (veh/h) | 1230 | - | - | 235 | 620 | 262 | 597 | 1138 | - | - | | |
| HCM Lane V/C Ratio | 0.017 | - | - | 0.191 | 0.058 | 0.126 | 0.128 | 0.018 | - | - | | |
| HCM Control Delay (s) | 8 | - | - | 23.9 | 11.2 | 20.7 | 11.9 | 8.2 | - | - | | |
| HCM Lane LOS | A | - | - | C | B | C | B | A | - | - | | |
| HCM 95th %tile Q(veh) | 0.1 | - | - | 0.7 | 0.2 | 0.4 | 0.4 | 0.1 | - | - | | |

Intersection

Intersection Delay, s/veh 7.7

Intersection LOS A

| Movement | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | NBR | SBL | SBT | SBR |
|----------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Lane Configurations | | ↔ | | | ↔ | | | ↔ | | | ↔ | |
| Traffic Vol, veh/h | 23 | 15 | 10 | 5 | 20 | 25 | 5 | 48 | 2 | 20 | 66 | 35 |
| Future Vol, veh/h | 23 | 15 | 10 | 5 | 20 | 25 | 5 | 48 | 2 | 20 | 66 | 35 |
| Peak Hour Factor | 0.88 | 0.88 | 0.88 | 0.88 | 0.88 | 0.88 | 0.88 | 0.88 | 0.88 | 0.88 | 0.88 | 0.88 |
| Heavy Vehicles, % | 5 | 5 | 5 | 7 | 7 | 7 | 0 | 0 | 0 | 2 | 2 | 2 |
| Mvmt Flow | 26 | 17 | 11 | 6 | 23 | 28 | 6 | 55 | 2 | 23 | 75 | 40 |
| Number of Lanes | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 |
| Approach | EB | | | WB | | | NB | | | SB | | |
| Opposing Approach | WB | | | EB | | | SB | | | NB | | |
| Opposing Lanes | 1 | | | 1 | | | 1 | | | 1 | | |
| Conflicting Approach Left | SB | | | NB | | | EB | | | WB | | |
| Conflicting Lanes Left | 1 | | | 1 | | | 1 | | | 1 | | |
| Conflicting Approach Right | NB | | | SB | | | WB | | | EB | | |
| Conflicting Lanes Right | 1 | | | 1 | | | 1 | | | 1 | | |
| HCM Control Delay | 7.8 | | | 7.5 | | | 7.6 | | | 7.9 | | |
| HCM LOS | A | | | A | | | A | | | A | | |

| Lane | NBLn1 | EBLn1 | WBLn1 | SBLn1 |
|------------------------|-------|-------|-------|-------|
| Vol Left, % | 9% | 48% | 10% | 17% |
| Vol Thru, % | 87% | 31% | 40% | 55% |
| Vol Right, % | 4% | 21% | 50% | 29% |
| Sign Control | Stop | Stop | Stop | Stop |
| Traffic Vol by Lane | 55 | 48 | 50 | 121 |
| LT Vol | 5 | 23 | 5 | 20 |
| Through Vol | 48 | 15 | 20 | 66 |
| RT Vol | 2 | 10 | 25 | 35 |
| Lane Flow Rate | 62 | 55 | 57 | 138 |
| Geometry Grp | 1 | 1 | 1 | 1 |
| Degree of Util (X) | 0.073 | 0.067 | 0.067 | 0.154 |
| Departure Headway (Hd) | 4.196 | 4.454 | 4.238 | 4.035 |
| Convergence, Y/N | Yes | Yes | Yes | Yes |
| Cap | 839 | 809 | 850 | 876 |
| Service Time | 2.294 | 2.456 | 2.239 | 2.118 |
| HCM Lane V/C Ratio | 0.074 | 0.068 | 0.067 | 0.158 |
| HCM Control Delay | 7.6 | 7.8 | 7.5 | 7.9 |
| HCM Lane LOS | A | A | A | A |
| HCM 95th-tile Q | 0.2 | 0.2 | 0.2 | 0.5 |